RANGER
ENVIRONMENTAL SERVICES, LLC

RECLAMATION REPORT
(VOLUME 1 OF 4)
ROY SWD #3

NAB1801936658, NAB1834454137, NAPP2111045260, & NAPP2123047534
UNIT P, SECTION 7, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.67059, -104.51773
RANGER REFERENCE NO. 5375

PREPARED FOR:

EOG RESOURCES, INC.
MIDLAND DIVISION
5509 CHAMPIONS DRIVE
MIDLAND, TEXAS 79706

PREPARED BY:

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MAY 30, 2025

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1.0 SITE LOCATION AND BACKGROUND

The Roy SWD #3 (Site) is located on private land, approximately 13.6 miles southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit P, Section 7, T19S-R25E at GPS coordinates 32.67059, -104.51773. The site was operated by EOG Resources, Inc. (EOG) and historically consisted of a saltwater disposal well, a tank battery with an earthen containment berm, pump houses, and associated equipment. In April and May of 2022, plugging and abandonment of the on-site disposal well was completed. Additionally, the on-site tank battery and associated equipment has been taken out-of-service, decommissioned, and removed from the Site.

In the final years of operations at the Site, release incidents and the discovery of historic impacts associated with operations at the Site resulted in the remediation of four New Mexico Oil Conservation Division (NMOCD) incidents. The incidents (NMOCD IDs #NAB1801936658, NAB1834454137, NAPP2111046250, & NAPP2123047534) were completed in three remediation areas at the Site:

- **NMOCD Incident ID #nAPP2111046250**: Involved remedial operations in the southern portion of the Roy SWD #3 facility pad as well as off pad areas to the east and south of the former pad area.
- **NMOCD Incident ID #nAPP2123047534**: An incident associated with a release from an injection line adjacent to the former Roy SWD #3 wellhead. Involved remedial operations in the northern portion of the former facility pad.
- **NMOCD Incident ID#s nAB1801936658 & nAB1834454137**: Two incidents associated with releases in the former tank battery area. Due to shared impact areas the incidents were addressed in conjunction with one another and included the remediation of the area of the former tank battery.

EOG retained Ranger Environmental Services, LLC (Ranger) to assist in the assessment and remediation of the above incidents and associated impacts.

Due to the complex nature of the incidents/remediation areas, remediation operations at the Site were prolonged and were conducted from August 2021 to December 30, 2024. By January 2025, Site Remediation and Closure reports for each incident had been completed, submitted to the NMOCD, and had received NMOCD approval of remediation closure.

Due to the decommissioned status of the Site, and the fact that all remedial efforts had been completed, reclamation of the Site was warranted. As such, reclamation efforts to return the Site to pre-operation conditions have been completed. This report has been prepared to provide details of the completed reclamation efforts.

A *Topographic Map* and *Area Map* noting the location of the subject Site and surrounding areas are provided in the Figures section. Also included are a *Remediation Area Overview Map* which depicts the boundaries of the completed remedial efforts, and a *Reclamation Area Overview Map* which illustrates the boundaries of the completed reclamation activities.

2.0 SITE REMEDIATION

2.1 Closure Criteria

Based upon the site characterization details provided in prior reports submitted to the NMOCD, remedial operations at the Site were completed to the Table 1 19.15.29.12 NMAC (groundwater ≤50' feet) criteria (Table 1 Criteria) with the exception of an area in the immediate vicinity of the wellhead where elevated soil concentrations at depths greater than four feet below ground surface (bgs) were addressed under an NMOCD approved alternative strategy. All remediation activities at the Site were completed to bring the surface to four-foot depth interval into compliance with the Restoration, Reclamation and Re-Vegetation criteria (Reclamation Criteria) detailed in 19.15.29.13 NMAC. The referenced NMAC 19.15.29 criteria are detailed below:

SITE CLOSURE CRITERIA[1]

REGULATORY STANDARD	CHLORIDE	TPH (GRO+DRO +MRO)	BTEX	BENZENE
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW ≤50') & 19.15.29.13 NMAC Restoration, Reclamation and Re-Vegetation (Soils 0'-4')	600	100[2]	50[2]	10[2]

All Values Presented in Parts Per Million (mg/Kg)

1. *Full site characterization details were included in various submittals for each subject incident.*
2. *Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of Digital C-141 and the release rule (19.15.29 NMAC) dated December 1, 2023.*

2.2 Impacted Soil Removal and Remediation Summary

Remedial operations at the Site were conducted from August 2021 to December 2024. Full details of the completed remedial efforts for the above-summarized incidents were provided in the NMOCD approved remediation and closure reports prepared for each incident. Complete copies of these reports are provided in Appendix D.

Throughout the course of the remedial operations at the site, field readings were continuously collected during the excavation process to guide the horizontal and vertical extents of the excavation areas and to qualitatively assess the cleanup progress. The field screening activities

conducted by Ranger included the usage of an organic vapor monitor (OVM) and field chloride titration kits. Upon reaching boundaries in an area which appeared to have attained the site closure criteria based upon the field screening results, cleanup confirmation soil samples were collected for laboratory analysis in accordance with the approved Remediation Plan and/or in accordance with NMAC 19.15.29.12 (D). Prior to each cleanup confirmation soil sampling event, appropriate notice was provided to the NMOCD in accordance with NMAC 19.15.29.12 (D). Copies of the notifications are provided in the attached remediation and closure reports prepared for each incident.

Numerous cleanup confirmation soil sampling events were ultimately conducted to verify the field readings and confirm whether or not the site closure criteria had been attained. In the event that the cleanup confirmation soil sampling results indicated that the site closure criteria had not been attained, then additional over-excavation and re-sampling of those areas was conducted.

All cleanup confirmation soil samples were collected and managed using standard QA/QC and chain-of-custody procedures. Ranger personnel wore new nitrile gloves while handling each sample in order to prevent cross-contamination of samples. The collected soil samples were containerized in sterile, laboratory-suppled containers and were subsequently sealed in one or more zip lock bags and stored in a sample shuttle containing ice until arrival at the laboratory for chemical analysis. All sample containers were labeled with the project name, sample identification, date and time of sample collection, and samplers' initials. Chain-of-custody forms were completed to document sample transport to the analytical laboratory.

Upon collection, the soil samples were submitted to Eurofins Albuquerque (formerly Hall Environmental Analysis Laboratory, Inc.) in Albuquerque, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and, total chloride using EPA Method 300. Copies of the laboratory analytical reports including chain-of-custody documentation are included in the attached site remediation and closure reports.

2.3 Final Excavation and Cleanup Confirmation Soil Sample Results

The final cleanup confirmation soil sample results for each incident area documented attainment of the NMOCD approved closure criteria and Reclamation Criteria in the surface to four-foot bgs depth interval. Figures illustrating the completed excavation boundaries and the locations of the final cleanup confirmation soil samples for each incident are included in the attached remediation and closure reports. These reports also contain comprehensive analytical summary tables which provide a summary of all laboratory analytical results for each incident. It should be noted that on these tables, any results presented with a "strikethrough" indicate that those sample areas were further over-excavated and resampled.

2.4 Waste Disposal

All soils generated during the remedial excavation activities were transported to disposal at either the Lea Land disposal facility in Eddy County, New Mexico or the Gandy Marley disposal facility located in Chavez County, New Mexico.

3.0 REMEDIATION DOCUMENTATION & NMOCD CLOSURE APPROVAL

3.1 nAPP2111046250 – Eastern Off Pad, Southern Off Pad, and Pit Areas

Full remediation details were provided in the *Site Remediation and Closure Report*, dated January 14, 2025. On January 23, 2025, the NMOCD approved of remediation closure for the incident.

3.2 nAPP2123047534 – Northern On-Pad Area

Full remediation details were provided in the *Site Remediation and Closure Report*, dated January 14, 2025. On January 24, 2025, the NMOCD approved of remediation closure for the incident.

3.3 nAB1801936658 & nAB1834454137 – Tank Battery Area

Full remediation details were provided in the *Site Remediation and Closure Report*, dated January 21, 2025. On January 23, 2025, the NMOCD approved of remediation closure for both incidents.

4.0 SITE RECLAMATION

As the subject Site is no longer needed for production operations, reclamation of the entirety of the former facility pad and remediation areas has been completed. Below is a summary of the completed activities:

4.1 Remediation Area Backfill

Upon confirmation that remediation excavation activities had attained the NMOCD approved closure criteria, backfill of the associated remediation area was completed. The backfill operations were completed to the natural grade of the surrounding area. The backfill was sourced from an adjacent location and was comprised of virgin material of similar lithology to that which was removed from the impacted areas.

On May 15, 2024, Ranger personnel collected samples of the material designated for use as backfill. A total of six five-part composite samples were collected from the area designated for backfill. Upon collection, the samples were submitted to Eurofins Albuquerque (formerly Hall Environmental Analysis Laboratory, Inc.) in Albuquerque, New Mexico for analysis of TPH using EPA Method 8015; BTEX using EPA Method 8021; and, total chloride using EPA Method 300.

Upon review of the laboratory analytical results, all samples collected from the backfill source were documented to contain nondetectable BTEX, TPH and chloride concentrations. A copy of the laboratory analytical report and associated chain-of-custody documentation is attached.

During the backfill process, watering operations were continuously completed to reduce dust from the operations.

4.2 Former Pad Area and Access Road

During the course of the remedial operations at the Site, all berm material was removed from the Site and transported to disposal. A majority of the former facility pad material was also removed and transported to disposal. Upon completion of the Site remedial efforts, the remaining facility

pad and the non-native site access road base material were removed and transported off-site for disposal. As illustrated on the attached *Reclamation Area Overview Map*, reclamation of the access road was limited to the portion of the road south of the active caliche pit since the road also serves as access to the caliche pit.

4.3 Revegetation

In order to re-establish vegetation in the reclamation areas, the site was re-seeded in accordance with the Howell Ranch directed seed mixture and application rate. Seeding was completed during the week of April 21, 2025. The revegetation efforts will target a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plan cover of at lease seventy percent of pre-disturbance levels, excluding noxious weeds.

4.4 Site Security

To secure the reclaimed areas from adverse vehicular and/or livestock activity, the entirety of the reclamation areas (access road, former pad, and remediation areas) will be surrounded by fencing until reaching the target vegetative cover. Erosion control berms do not appear necessary at the location and have not been installed. However, if at any point in time erosion control efforts appear warranted, they will be installed as necessary.

5.0 SITE MONITORING AND CLOSURE

To monitor the progress of the reclamation efforts, periodic site inspections will be conducted. The reclaimed areas will be evaluated for vegetation growth, site security measures, and erosional controls. If any issues are observed, additional actions will be implemented to appropriately address the issues.

When the target vegetation cover appears to have been achieved, a confirmation survey by a third-party consultant will be conducted to confirm that the area is in attainment of the target vegetative cover. Once confirmed that the target vegetative cover has been achieved, a revegetation report will be prepared and submitted in accordance with the criteria outlined in the State of New Mexico Energy, Minerals and Natural Resources Department document *"Procedures for the Implementation of Digital C-141 and the release rule (19.15.29 NMAC)"* dated December 1, 2023.

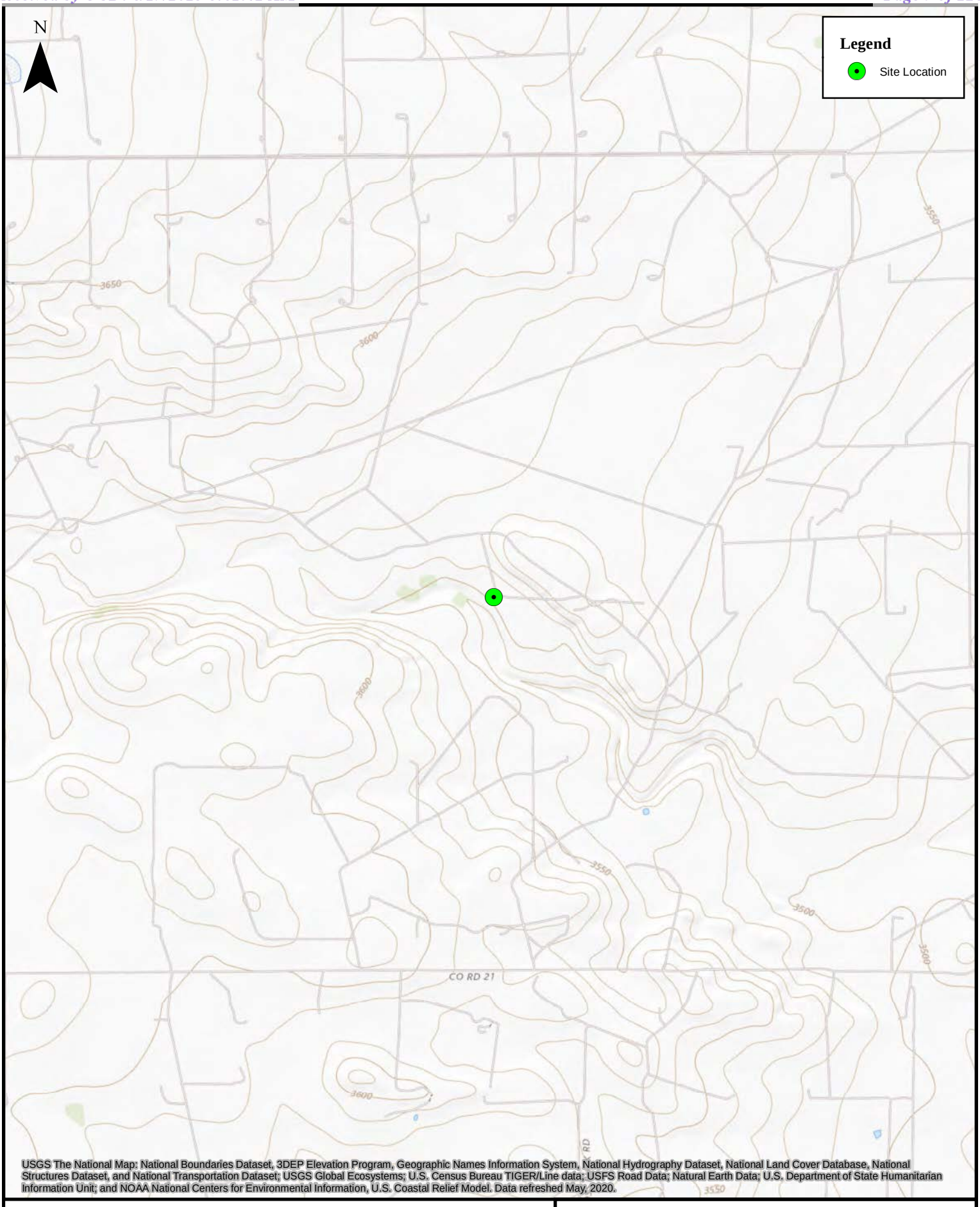
FIGURES

Topographic Map

Area Map

Remediation Area Overview Map

Reclamation Area Overview Map

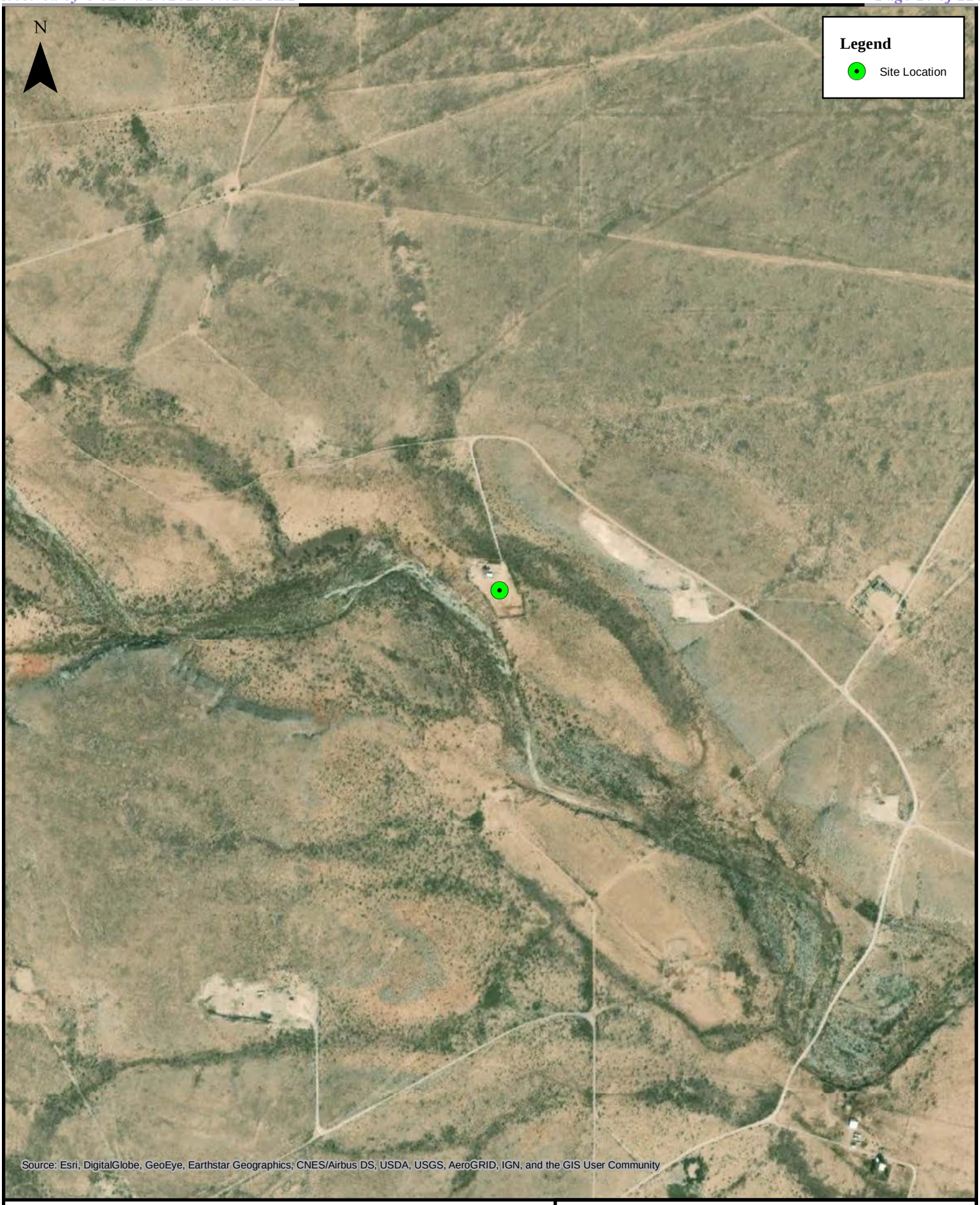


RANGER ENVIRONMENTAL SERVICES, INC.

0 600 1,200 2,400 3,600 4,800 Feet

1:24,000

Topographic Map
Roy SWD #3
EOG Resources, Inc.

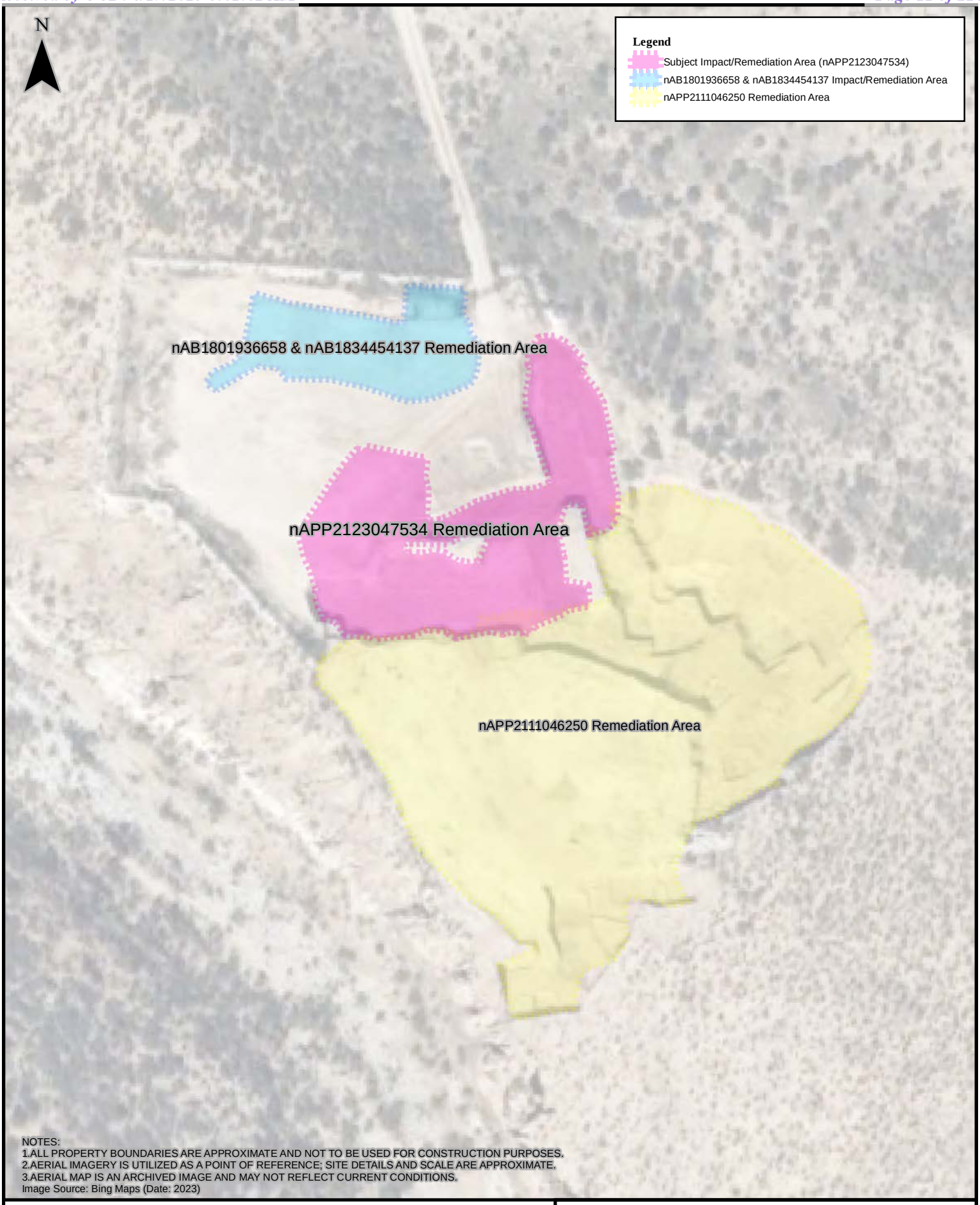


RANGER ENVIRONMENTAL SERVICES, INC.

0 250 500 1,000 1,500 2,000 Feet

1:10,000

Area Map
Roy SWD #3
EOG Resources, Inc.



NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Bing Maps (Date: 2023)

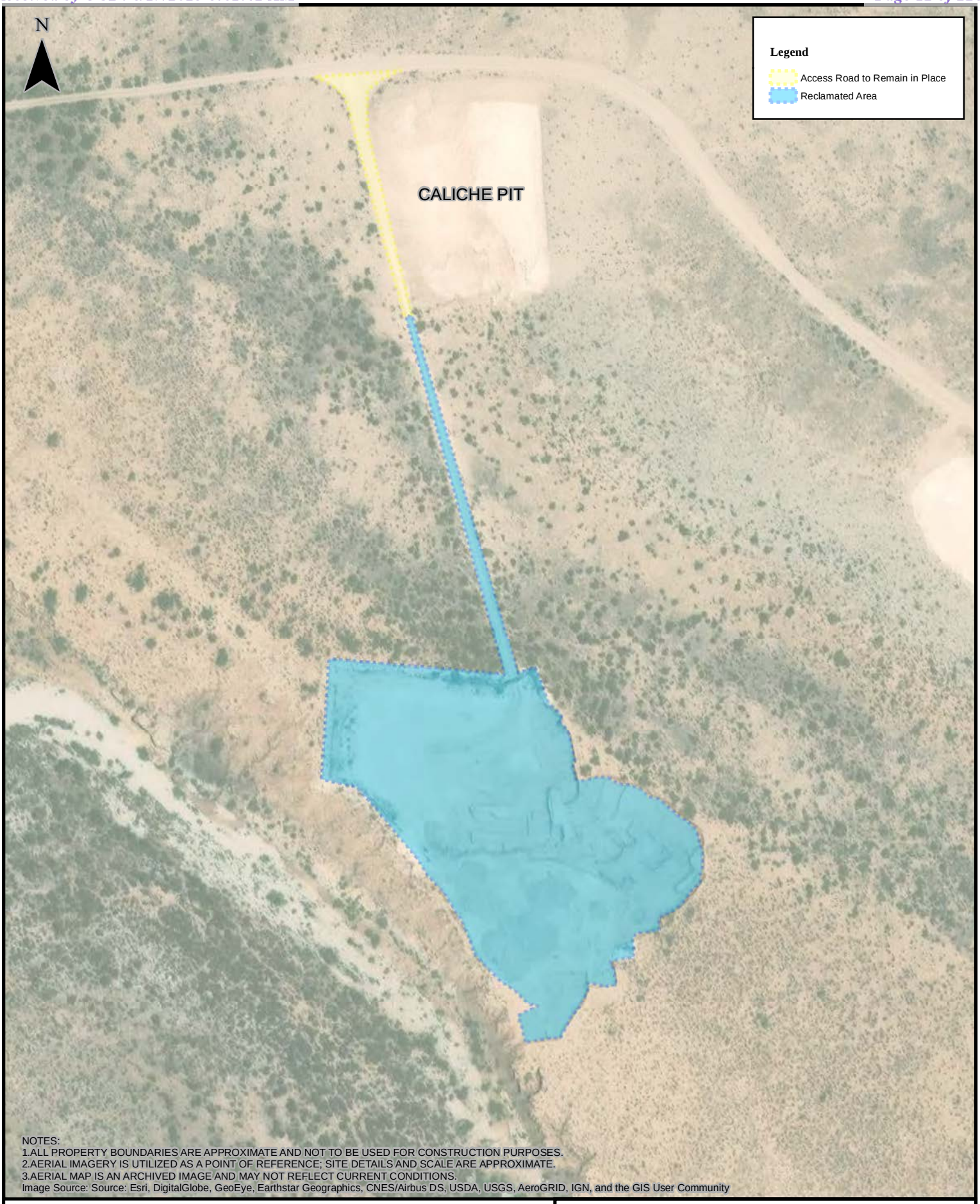
RANGER ENVIRONMENTAL SERVICES, LLC

0 15 30 60 90 120 Feet

1:1,000

Remediation Area Overview Map

Roy SWD #3
EOG Resources, Inc.



NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

RANGER ENVIRONMENTAL SERVICES, LLC

0 37.5 75 150 225 300 Feet

1:2,000

Reclamation Area Overview Map

Roy SWD #3

EOG Resources, Inc.

APPENDIX A – PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPH NO. 1 – A general view of the Tank Battery Area during the initial excavation activities in July, 2024. The view is towards the northwest.



PHOTOGRAPH NO. 2 – A view of the Tank Battery Area during the soil removal operations. The view is towards the northeast.



PHOTOGRAPH NO. 3 – A view of the Tank Battery Area upon completion. The view is towards the northeast.



PHOTOGRAPH NO. 4 – An additional view of the Tank Battery Area upon completion in 2024. The view is towards the southeast.



PHOTOGRAPH NO. 5 – A view of the former site access road from the northern extent of reclamation activities. The view is towards the south.



PHOTOGRAPH NO. 6 – A view of the former well/facility pad area. The view is towards the southwest.



PHOTOGRAPH NO. 7 – An additional view of the former well/facility pad area. The view is towards the north.



PHOTOGRAPH NO. 8 – An additional view of the former well/facility pad area. The view is towards the northwest.

APPENDIX B – BACKFILL SOURCE LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 5/28/2024 3:39:09 PM

JOB DESCRIPTION

Howell Top Soil Pit

JOB NUMBER

885-4695-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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5/28/2024 3:39:09 PM

Authorized for release by
Andy Freeman, Business Unit Manager
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(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Howell Top Soil Pit

Laboratory Job ID: 885-4695-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-4695-1
Project/Site: Howell Top Soil Pit

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc Job ID: 885-4695-1
Project: Howell Top Soil Pit

Job ID: 885-4695-1 Eurofins Albuquerque

Job Narrative
885-4695-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/17/2024 8:16 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Howell Top Soil Pit

Job ID: 885-4695-1

Client Sample ID: SS-1

Date Collected: 05/15/24 14:00
Date Received: 05/17/24 08:16

Lab Sample ID: 885-4695-1

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.4		mg/Kg		05/17/24 09:52	05/17/24 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/17/24 09:52*	*05/17/24 13:47*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		05/17/24 09:52	05/17/24 13:47	1
Ethylbenzene	ND		0.034		mg/Kg		05/17/24 09:52	05/17/24 13:47	1
Toluene	ND		0.034		mg/Kg		05/17/24 09:52	05/17/24 13:47	1
Xylenes, Total	ND		0.067		mg/Kg		05/17/24 09:52	05/17/24 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*05/17/24 09:52*	*05/17/24 13:47*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		05/17/24 11:40	05/17/24 15:15	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/17/24 11:40	05/17/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*05/17/24 11:40*	*05/17/24 15:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/17/24 15:02	05/19/24 15:01	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Howell Top Soil Pit

Job ID: 885-4695-1

Client Sample ID: SS-2

Date Collected: 05/15/24 14:10
Date Received: 05/17/24 08:16

Lab Sample ID: 885-4695-2

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.5		mg/Kg		05/17/24 09:52	05/17/24 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/17/24 09:52*	*05/17/24 14:57*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		05/17/24 09:52	05/17/24 14:57	1
Ethylbenzene	ND		0.035		mg/Kg		05/17/24 09:52	05/17/24 14:57	1
Toluene	ND		0.035		mg/Kg		05/17/24 09:52	05/17/24 14:57	1
Xylenes, Total	ND		0.069		mg/Kg		05/17/24 09:52	05/17/24 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/17/24 09:52*	*05/17/24 14:57*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		05/17/24 11:40	05/17/24 15:25	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/17/24 11:40	05/17/24 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*05/17/24 11:40*	*05/17/24 15:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/17/24 15:02	05/19/24 15:38	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Job ID: 885-4695-1
Project/Site: Howell Top Soil Pit

Client Sample ID: SS-3
Lab Sample ID: 885-4695-3
Date Collected: 05/15/24 14:16
Matrix: Solid
Date Received: 05/17/24 08:16

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.3		mg/Kg		05/17/24 09:52	05/17/24 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/17/24 09:52*	*05/17/24 16:07*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.016		mg/Kg		05/17/24 09:52	05/17/24 16:07	1
Ethylbenzene	ND		0.033		mg/Kg		05/17/24 09:52	05/17/24 16:07	1
Toluene	ND		0.033		mg/Kg		05/17/24 09:52	05/17/24 16:07	1
Xylenes, Total	ND		0.066		mg/Kg		05/17/24 09:52	05/17/24 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/17/24 09:52*	*05/17/24 16:07*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6		mg/Kg		05/17/24 11:40	05/17/24 15:36	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		05/17/24 11:40	05/17/24 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*05/17/24 11:40*	*05/17/24 15:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/17/24 15:02	05/19/24 15:50	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Howell Top Soil Pit

Job ID: 885-4695-1

Client Sample ID: SS-4

Date Collected: 05/15/24 14:18
Date Received: 05/17/24 08:16

Lab Sample ID: 885-4695-4

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.4		mg/Kg		05/17/24 09:52	05/17/24 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/17/24 09:52*	*05/17/24 16:30*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		05/17/24 09:52	05/17/24 16:30	1
Ethylbenzene	ND		0.034		mg/Kg		05/17/24 09:52	05/17/24 16:30	1
Toluene	ND		0.034		mg/Kg		05/17/24 09:52	05/17/24 16:30	1
Xylenes, Total	ND		0.069		mg/Kg		05/17/24 09:52	05/17/24 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/17/24 09:52*	*05/17/24 16:30*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		05/17/24 11:40	05/17/24 15:47	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/17/24 11:40	05/17/24 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*05/17/24 11:40*	*05/17/24 15:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/17/24 15:02	05/19/24 16:03	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Howell Top Soil Pit

Job ID: 885-4695-1

Client Sample ID: SS-5

Date Collected: 05/15/24 14:20
Date Received: 05/17/24 08:16

Lab Sample ID: 885-4695-5

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.3		mg/Kg		05/17/24 09:52	05/17/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*05/17/24 09:52*	*05/17/24 16:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		05/17/24 09:52	05/17/24 16:54	1
Ethylbenzene	ND		0.033		mg/Kg		05/17/24 09:52	05/17/24 16:54	1
Toluene	ND		0.033		mg/Kg		05/17/24 09:52	05/17/24 16:54	1
Xylenes, Total	ND		0.067		mg/Kg		05/17/24 09:52	05/17/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*	*05/17/24 09:52*	*05/17/24 16:54*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		05/17/24 11:40	05/17/24 15:58	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/17/24 11:40	05/17/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*05/17/24 11:40*	*05/17/24 15:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/17/24 15:02	05/19/24 16:15	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Howell Top Soil Pit

Job ID: 885-4695-1

Client Sample ID: SS-6

Date Collected: 05/15/24 14:24
Date Received: 05/17/24 08:16

Lab Sample ID: 885-4695-6

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.3		mg/Kg		05/17/24 09:52	05/17/24 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/17/24 09:52*	*05/17/24 17:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		05/17/24 09:52	05/17/24 17:17	1
Ethylbenzene	ND		0.033		mg/Kg		05/17/24 09:52	05/17/24 17:17	1
Toluene	ND		0.033		mg/Kg		05/17/24 09:52	05/17/24 17:17	1
Xylenes, Total	ND		0.067		mg/Kg		05/17/24 09:52	05/17/24 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/17/24 09:52*	*05/17/24 17:17*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		05/17/24 11:40	05/17/24 16:09	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/17/24 11:40	05/17/24 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*05/17/24 11:40*	*05/17/24 16:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/17/24 15:02	05/19/24 16:27	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Howell Top Soil Pit

Job ID: 885-4695-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-5175/1-A
Matrix: Solid
Analysis Batch: 5337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5175

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		05/17/24 09:52	05/17/24 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*05/17/24 09:52*	*05/17/24 11:25*	*1*

Lab Sample ID: LCS 885-5175/2-A
Matrix: Solid
Analysis Batch: 5337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5175

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	23.5		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*192*	*S1+*	*35 - 166*

Lab Sample ID: 885-4695-1 MS
Matrix: Solid
Analysis Batch: 5337

Client Sample ID: SS-1
Prep Type: Total/NA
Prep Batch: 5175

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		16.9	16.0		mg/Kg		95	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*192*	*S1+*	*35 - 166*

Lab Sample ID: 885-4695-1 MSD
Matrix: Solid
Analysis Batch: 5337

Client Sample ID: SS-1
Prep Type: Total/NA
Prep Batch: 5175

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		16.9	15.9		mg/Kg		94	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*191*	*S1+*	*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-5175/1-A
Matrix: Solid
Analysis Batch: 5338

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5175

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/17/24 09:52	05/17/24 11:25	1
Ethylbenzene	ND		0.050		mg/Kg		05/17/24 09:52	05/17/24 11:25	1
Toluene	ND		0.050		mg/Kg		05/17/24 09:52	05/17/24 11:25	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Howell Top Soil Pit

Job ID: 885-4695-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-5175/1-A
Matrix: Solid
Analysis Batch: 5338

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5175

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		05/17/24 09:52	05/17/24 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/17/24 09:52*	*05/17/24 11:25*	*1*

Lab Sample ID: LCS 885-5175/3-A
Matrix: Solid
Analysis Batch: 5338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5175

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.840		mg/Kg		84	70 - 130		
Ethylbenzene			1.00	0.840		mg/Kg		84	70 - 130		
m,p-Xylene			2.00	1.71		mg/Kg		85	70 - 130		
o-Xylene			1.00	0.838		mg/Kg		84	70 - 130		
Toluene			1.00	0.815		mg/Kg		82	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*

Lab Sample ID: 885-4695-2 MS
Matrix: Solid
Analysis Batch: 5338

Client Sample ID: SS-2
Prep Type: Total/NA
Prep Batch: 5175

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.692	0.592		mg/Kg		86	70 - 130		
Ethylbenzene	ND		0.692	0.589		mg/Kg		85	70 - 130		
m,p-Xylene	ND		1.38	1.18		mg/Kg		84	70 - 130		
o-Xylene	ND		0.692	0.579		mg/Kg		84	70 - 130		
Toluene	ND		0.692	0.573		mg/Kg		83	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*

Lab Sample ID: 885-4695-2 MSD
Matrix: Solid
Analysis Batch: 5338

Client Sample ID: SS-2
Prep Type: Total/NA
Prep Batch: 5175

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.692	0.560		mg/Kg		81	70 - 130	6	20
Ethylbenzene	ND		0.692	0.559		mg/Kg		81	70 - 130	5	20
m,p-Xylene	ND		1.38	1.14		mg/Kg		81	70 - 130	4	20
o-Xylene	ND		0.692	0.554		mg/Kg		80	70 - 130	4	20
Toluene	ND		0.692	0.542		mg/Kg		78	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Howell Top Soil Pit

Job ID: 885-4695-1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-5184/1-A
Matrix: Solid
Analysis Batch: 5200

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5184

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/17/24 11:40	05/17/24 14:10	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/17/24 11:40	05/17/24 14:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*05/17/24 11:40*	*05/17/24 14:10*	*1*

Lab Sample ID: LCS 885-5184/2-A
Matrix: Solid
Analysis Batch: 5200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5184

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	48.9		mg/Kg		98	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-4695-1 MS
Matrix: Solid
Analysis Batch: 5233

Client Sample ID: SS-1
Prep Type: Total/NA
Prep Batch: 5203

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		29.8	ND		mg/Kg		NC	50 - 150		

Lab Sample ID: 885-4695-1 MSD
Matrix: Solid
Analysis Batch: 5233

Client Sample ID: SS-1
Prep Type: Total/NA
Prep Batch: 5203

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		30.1	ND		mg/Kg		NC	50 - 150	NC	20

Lab Sample ID: MB 885-5233/4
Matrix: Solid
Analysis Batch: 5233

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/Kg			05/19/24 07:49	1

Lab Sample ID: MRL 885-5233/3
Matrix: Solid
Analysis Batch: 5233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.540		mg/L		108	50 - 150		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Howell Top Soil Pit

Job ID: 885-4695-1

GC VOA

Prep Batch: 5175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4695-1	SS-1	Total/NA	Solid	5035	
885-4695-2	SS-2	Total/NA	Solid	5035	
885-4695-3	SS-3	Total/NA	Solid	5035	
885-4695-4	SS-4	Total/NA	Solid	5035	
885-4695-5	SS-5	Total/NA	Solid	5035	
885-4695-6	SS-6	Total/NA	Solid	5035	
MB 885-5175/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-5175/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-5175/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-4695-1 MS	SS-1	Total/NA	Solid	5035	
885-4695-1 MSD	SS-1	Total/NA	Solid	5035	
885-4695-2 MS	SS-2	Total/NA	Solid	5035	
885-4695-2 MSD	SS-2	Total/NA	Solid	5035	

Analysis Batch: 5337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4695-1	SS-1	Total/NA	Solid	8015D	5175
885-4695-2	SS-2	Total/NA	Solid	8015D	5175
885-4695-3	SS-3	Total/NA	Solid	8015D	5175
885-4695-4	SS-4	Total/NA	Solid	8015D	5175
885-4695-5	SS-5	Total/NA	Solid	8015D	5175
885-4695-6	SS-6	Total/NA	Solid	8015D	5175
MB 885-5175/1-A	Method Blank	Total/NA	Solid	8015D	5175
LCS 885-5175/2-A	Lab Control Sample	Total/NA	Solid	8015D	5175
885-4695-1 MS	SS-1	Total/NA	Solid	8015D	5175
885-4695-1 MSD	SS-1	Total/NA	Solid	8015D	5175

Analysis Batch: 5338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4695-1	SS-1	Total/NA	Solid	8021B	5175
885-4695-2	SS-2	Total/NA	Solid	8021B	5175
885-4695-3	SS-3	Total/NA	Solid	8021B	5175
885-4695-4	SS-4	Total/NA	Solid	8021B	5175
885-4695-5	SS-5	Total/NA	Solid	8021B	5175
885-4695-6	SS-6	Total/NA	Solid	8021B	5175
MB 885-5175/1-A	Method Blank	Total/NA	Solid	8021B	5175
LCS 885-5175/3-A	Lab Control Sample	Total/NA	Solid	8021B	5175
885-4695-2 MS	SS-2	Total/NA	Solid	8021B	5175
885-4695-2 MSD	SS-2	Total/NA	Solid	8021B	5175

GC Semi VOA

Prep Batch: 5184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4695-1	SS-1	Total/NA	Solid	SHAKE	
885-4695-2	SS-2	Total/NA	Solid	SHAKE	
885-4695-3	SS-3	Total/NA	Solid	SHAKE	
885-4695-4	SS-4	Total/NA	Solid	SHAKE	
885-4695-5	SS-5	Total/NA	Solid	SHAKE	
885-4695-6	SS-6	Total/NA	Solid	SHAKE	
MB 885-5184/1-A	Method Blank	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Howell Top Soil Pit

Job ID: 885-4695-1

GC Semi VOA (Continued)

Prep Batch: 5184 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-5184/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 5200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-5184/1-A	Method Blank	Total/NA	Solid	8015D	5184
LCS 885-5184/2-A	Lab Control Sample	Total/NA	Solid	8015D	5184

Analysis Batch: 5252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4695-1	SS-1	Total/NA	Solid	8015D	5184
885-4695-2	SS-2	Total/NA	Solid	8015D	5184
885-4695-3	SS-3	Total/NA	Solid	8015D	5184
885-4695-4	SS-4	Total/NA	Solid	8015D	5184
885-4695-5	SS-5	Total/NA	Solid	8015D	5184
885-4695-6	SS-6	Total/NA	Solid	8015D	5184

HPLC/IC

Prep Batch: 5203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4695-1	SS-1	Total/NA	Solid	300_Prep	
885-4695-2	SS-2	Total/NA	Solid	300_Prep	
885-4695-3	SS-3	Total/NA	Solid	300_Prep	
885-4695-4	SS-4	Total/NA	Solid	300_Prep	
885-4695-5	SS-5	Total/NA	Solid	300_Prep	
885-4695-6	SS-6	Total/NA	Solid	300_Prep	
885-4695-1 MS	SS-1	Total/NA	Solid	300_Prep	
885-4695-1 MSD	SS-1	Total/NA	Solid	300_Prep	

Analysis Batch: 5233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4695-1	SS-1	Total/NA	Solid	300.0	5203
885-4695-2	SS-2	Total/NA	Solid	300.0	5203
885-4695-3	SS-3	Total/NA	Solid	300.0	5203
885-4695-4	SS-4	Total/NA	Solid	300.0	5203
885-4695-5	SS-5	Total/NA	Solid	300.0	5203
885-4695-6	SS-6	Total/NA	Solid	300.0	5203
MB 885-5233/4	Method Blank	Total/NA	Solid	300.0	
MRL 885-5233/3	Lab Control Sample	Total/NA	Solid	300.0	
885-4695-1 MS	SS-1	Total/NA	Solid	300.0	5203
885-4695-1 MSD	SS-1	Total/NA	Solid	300.0	5203

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Howell Top Soil Pit

Job ID: 885-4695-1

Client Sample ID: SS-1

Lab Sample ID: 885-4695-1
Matrix: Solid
Date Collected: 05/15/24 14:00
Date Received: 05/17/24 08:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			5175	JP	EET ALB	05/17/24 09:52
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/17/24 13:47
Total/NA	Prep	5035			5175	JP	EET ALB	05/17/24 09:52
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/17/24 13:47
Total/NA	Prep	SHAKE			5184	DH	EET ALB	05/17/24 11:40
Total/NA	Analysis	8015D		1	5252	JU	EET ALB	05/17/24 15:15
Total/NA	Prep	300_Prep			5203	RC	EET ALB	05/17/24 15:02
Total/NA	Analysis	300.0		20	5233	JT	EET ALB	05/19/24 15:01

Client Sample ID: SS-2

Lab Sample ID: 885-4695-2
Matrix: Solid
Date Collected: 05/15/24 14:10
Date Received: 05/17/24 08:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			5175	JP	EET ALB	05/17/24 09:52
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/17/24 14:57
Total/NA	Prep	5035			5175	JP	EET ALB	05/17/24 09:52
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/17/24 14:57
Total/NA	Prep	SHAKE			5184	DH	EET ALB	05/17/24 11:40
Total/NA	Analysis	8015D		1	5252	JU	EET ALB	05/17/24 15:25
Total/NA	Prep	300_Prep			5203	RC	EET ALB	05/17/24 15:02
Total/NA	Analysis	300.0		20	5233	JT	EET ALB	05/19/24 15:38

Client Sample ID: SS-3

Lab Sample ID: 885-4695-3
Matrix: Solid
Date Collected: 05/15/24 14:16
Date Received: 05/17/24 08:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			5175	JP	EET ALB	05/17/24 09:52
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/17/24 16:07
Total/NA	Prep	5035			5175	JP	EET ALB	05/17/24 09:52
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/17/24 16:07
Total/NA	Prep	SHAKE			5184	DH	EET ALB	05/17/24 11:40
Total/NA	Analysis	8015D		1	5252	JU	EET ALB	05/17/24 15:36
Total/NA	Prep	300_Prep			5203	RC	EET ALB	05/17/24 15:02
Total/NA	Analysis	300.0		20	5233	JT	EET ALB	05/19/24 15:50

Client Sample ID: SS-4

Lab Sample ID: 885-4695-4
Matrix: Solid
Date Collected: 05/15/24 14:18
Date Received: 05/17/24 08:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			5175	JP	EET ALB	05/17/24 09:52
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/17/24 16:30

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-4695-1
Project/Site: Howell Top Soil Pit

Client Sample ID: SS-4
Lab Sample ID: 885-4695-4
Date Collected: 05/15/24 14:18
Matrix: Solid
Date Received: 05/17/24 08:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			5175	JP	EET ALB	05/17/24 09:52
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/17/24 16:30
Total/NA	Prep	SHAKE			5184	DH	EET ALB	05/17/24 11:40
Total/NA	Analysis	8015D		1	5252	JU	EET ALB	05/17/24 15:47
Total/NA	Prep	300_Prep			5203	RC	EET ALB	05/17/24 15:02
Total/NA	Analysis	300.0		20	5233	JT	EET ALB	05/19/24 16:03

Client Sample ID: SS-5
Lab Sample ID: 885-4695-5
Date Collected: 05/15/24 14:20
Matrix: Solid
Date Received: 05/17/24 08:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			5175	JP	EET ALB	05/17/24 09:52
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/17/24 16:54
Total/NA	Prep	5035			5175	JP	EET ALB	05/17/24 09:52
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/17/24 16:54
Total/NA	Prep	SHAKE			5184	DH	EET ALB	05/17/24 11:40
Total/NA	Analysis	8015D		1	5252	JU	EET ALB	05/17/24 15:58
Total/NA	Prep	300_Prep			5203	RC	EET ALB	05/17/24 15:02
Total/NA	Analysis	300.0		20	5233	JT	EET ALB	05/19/24 16:15

Client Sample ID: SS-6
Lab Sample ID: 885-4695-6
Date Collected: 05/15/24 14:24
Matrix: Solid
Date Received: 05/17/24 08:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			5175	JP	EET ALB	05/17/24 09:52
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/17/24 17:17
Total/NA	Prep	5035			5175	JP	EET ALB	05/17/24 09:52
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/17/24 17:17
Total/NA	Prep	SHAKE			5184	DH	EET ALB	05/17/24 11:40
Total/NA	Analysis	8015D		1	5252	JU	EET ALB	05/17/24 16:09
Total/NA	Prep	300_Prep			5203	RC	EET ALB	05/17/24 15:02
Total/NA	Analysis	300.0		20	5233	JT	EET ALB	05/19/24 16:27

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-4695-1
Project/Site: Howell Top Soil Pit

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 24hr

Project Name: Howell Top Soil Pit

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1 Monty

Cooler Temp(including CF): 2.0-0=2.0

HALL ENVIRONMENTAL ANALYSIS LAB

4901 Hawkins NE - Albuquerque, NM 885-4695 COC

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
5/15/24	1406	Soil	SS-1	1x4oz Jar	ICE		X	X	X
	1410		SS-2						
	1416		SS-3						
	1418		SS-4						
	1420		SS-5						
	1424		SS-6						

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/16/24	1015				5/16/24	1015
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
				courier	5/17/24	8:00

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

5/28/2024

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-4695-1

Login Number: 4695 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: McQuiston, Steven

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

APPENDIX C – JAMES H & BETTY R HOWELL REVOCABLE TRUST SEED MIXTURE

James H & Betty R Howell Revocable Trust Seed Mix

1lb per acre of Plains Bristlegrass

2lbs per acre of Green Sprangletop

3lbs per acre of Side Oats Gramma

2lbs per acre of Blue Gramma

Increase to 16lbs per acre if broadcast.

Add Reclamation Mix

40% Ryegrass (Annual)

10% Millet

7.5% Kleingrass

5.7% Sideoats

5% Green Sprangletop

7.5% Bristlegrass

10% Western Wheatgrass

10% Buffalograss

2.5% Blue Grama

PLANTING RATE 20 lbs. per acre

Updated 5/23/2021

RANGER
ENVIRONMENTAL SERVICES, LLC

RECLAMATION REPORT
(VOLUME 2 OF 4)
ROY SWD #3

NAB1801936658, NAB1834454137, NAPP2111045260, & NAPP2123047534
UNIT P, SECTION 7, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.67059, -104.51773
RANGER REFERENCE NO. 5375

PREPARED FOR:

EOG RESOURCES, INC.
MIDLAND DIVISION
5509 CHAMPIONS DRIVE
MIDLAND, TEXAS 79706

PREPARED BY:

RANGER ENVIRONMENTAL SERVICES, LLC
P.O. BOX 201179
AUSTIN, TEXAS 78720

MAY 30, 2025

Patrick K. Finn, P.G. (TX)
Project Geoscientist

William Kierdorf, REM
Project Manager

APPENDIX D – NMOCD APPROVED SITE REMEDIATION AND CLOSURE REPORTS

D.1 - NMOCD INCIDENT #NAPP2111046250

RANGER
ENVIRONMENTAL SERVICES, LLC

SITE REMEDIATION AND CLOSURE REPORT

EASTERN OFF PAD, SOUTHERN OFF PAD AND PIT AREAS

ROY SWD #3 (NAPP2111046250)
UNIT P, SECTION 7, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.67059, -104.51773
RANGER REFERENCE NO. 5375

PREPARED FOR:

EOG RESOURCES, INC.
MIDLAND DIVISION
5509 CHAMPIONS DRIVE
MIDLAND, TEXAS 79706

PREPARED BY:

RANGER ENVIRONMENTAL SERVICES, LLC
P.O. BOX 201179
AUSTIN, TEXAS 78720

JANUARY 14, 2025

Patrick K. Finn, P.G. (TX)
Project Geoscientist

William Kierdorf, REM
Project Manager

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- Remediation Area Overview Map
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- Final Excavation & Confirmation Sample Location Map – Southern Off-Pad Area
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- Final Excavation & Confirmation Sample Location Map – Pit Surface Area
- Final Excavation & Confirmation Sample Location Map – Western Pit Area

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- Eastern Off-Pad Area - Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data
- Southern Off-Pad Area Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data
- Pit Area (Eastern Pit Area, Pit “Surface” Area, & Western Pit Area) - Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

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ATTACHMENTS

- Attachment 1 – Photographic Documentation
- Attachment 2 – Laboratory Analytical Reports
- Attachment 3 – NMOCD Correspondence

RANGER
ENVIRONMENTAL SERVICES, LLC

SITE REMEDIATION AND CLOSURE REPORT
ROY SWD #3 (NAPP2111046250)
EASTERN OFF-PAD, SOUTHERN OFF-PAD AND PIT AREAS
UNIT P, SECTION 7, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.67059, -104.51773
RANGER REFERENCE NO. 5375

1.0 SITE LOCATION AND BACKGROUND

The Roy SWD #3 (Site) is located on private land, approximately 13.6 miles southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit P, Section 7, T19S-R25E at GPS coordinates 32.67059, -104.51773. The site was operated by EOG Resources, Inc. (EOG), and historically consisted of a saltwater disposal well, a tank battery with an earthen containment berm, pump houses and associated equipment. Operations at the site were once conducted within the full extent of the facility pad; however, a reduction of operations at the Site left the southern approximate half of the facility pad unused. Prior to the reporting of the subject incident detailed below, reclamation efforts to decommission the southern portion of the pad were completed. In April and May of 2022, plugging and abandonment of the on-site disposal well was completed. Additionally, the on-site tank battery and associated equipment has been taken out-of-service, decommissioned, and removed from the Site.

On April 16, 2021, an area of concern located to the east of the Roy SWD #3 facility boundary was reported to EOG by the private landowner, Howell Ranch. The area was noted to be within a historic line right-of-way. The area of concern was reported to the New Mexico Oil Conservation Division (NMOCD) on April 19, 2021 (NMOCD Incident # nAPP2111046250).

Additional open NMOCD incidents are present at the Site. Two incidents (NMOCD Incident ID #s nAB1801936658 & nAB1834454137) are associated with the former tank battery area located in the northern portion of the former facility. An incident associated with the adjacent Roy SWD #3 well head (NMOCD ID #nAPP2123047534) is present in the northern portion of the facility pad. Documentation of the impacts and completed remedial efforts in these incident areas will be submitted under separate cover. The following report is associated with the subject NMOCD Incident ID # nAPP2111046250.

EOG engaged Ranger Environmental Services, LLC (Ranger) to assist in the site assessment and remediation efforts. In May 2021, Ranger personnel initiated assessment activities to evaluate the extent of the impacts in the initially-reported area. During the course of the site activities, three distinct affected areas associated with the subject incident were identified, assessed, and remediated, as summarized below:

- ***Eastern Off-Pad Area***: This is the initial area associated with this incident that was reported by Howell Ranch to the east of the facility pad boundary in the line right-of-way.

- ***Former Drill Pit Area***: Based on observed evidence, the southern decommissioned portion of the Roy SWD #3 facility pad was where the former drill pit utilized during the installation of the Roy SWD #3 well was located. Elevated soil chloride concentrations were documented to be present in this area.

- ***Southern Off-Pad Area***: This area, located immediately south of the Former Drill Pit Area, was also documented to contain elevated soil chloride concentrations.

After completion of the initial assessment efforts in 2021, a Ranger prepared *Site Characterization and Proposed Remediation Plan*, dated October 12, 2021 ("Remediation Plan"), was prepared and submitted to the NMOCD for review. The plan included full details of the completed site assessment activities, details of additional delineation efforts to be completed in the Former Drill Pit Area, and proposed a remediation strategy which included limited soil removal and the installation of a geosynthetic clay liner (GCL). On April 21, 2022, the NMOCD approved the plan with notes that included approval of the utilization of a GCL in both the former drill pit area and areas outside of the former drill pit.

Due to the plugging and abandonment of the Roy SWD #3 disposal well in April and May 2022, which limited access to the site, the start of the soil remediation operations had to be delayed until May 10, 2022. Various weather and waste disposal related delays also occurred which prolonged the soil remediation process. Due to this, a Ranger prepared *Remediation Plan Update*, dated July 20, 2022, was prepared and submitted to the NMOCD. This report provided an update regarding the remedial activities completed to date, an outline of the activities pending completion, and requested additional time to complete the remedial activities. On November 16, 2022, NMOCD representatives responded to the *Remediation Plan Update* and requested that a meeting be scheduled to discuss the ongoing Site activities.

On November 29, 2022, representatives of the NMOCD, EOG, and Ranger met via teleconference. During the meeting, details of the *Remediation Plan Update* were reviewed and discussed. During the meeting, the NMOCD representatives expressed concerns regarding their prior approval of the remedial strategy for the Former Drill Pit Area. The NMOCD ultimately rescinded their April 21, 2022 approval of the limited soil removal operations and GCL installation in the former pit area and requested that additional assessment activities be completed within the footprint of the former drill pit in order to develop an updated remediation strategy.

Based on the above, multiple additional phases of assessment/delineation were completed in the Former Drill Pit Area. The results of each completed assessment/delineation event were supplied to the NMOCD representatives for review. Additional video conference meetings between NMOCD, EOG, and Ranger representatives were held on January 5, 2023, February 21, 2023, April 12, 2023, June 28, 2023, and July 26, 2023. During the meetings, the completed assessment/delineation activities and results were discussed as well as potential alternative remediation goals for the Former Drill Pit Area.

The alternative remediation goals which were discussed included potential limited soil removal to a predetermined depth(s) and/or the utilization of an alternative chloride remediation standard for the Site. While the NMOCD representatives provided general guidance for the level of remediation desired, no specific excavation depth(s) or alternate chloride target cleanup criteria were directed or approved. The ultimate directive provided by NMOCD was to remove "as much as possible" of the observed "chloride mass" in the Former Drill Pit Area.

Due to the lack of clear guidance regarding the site cleanup goals, the Site remediation goals were ultimately shifted to the applicable NMAC 19.15.29.12 Table 1 Criteria as detailed in Section 2.1, below. In November 2024, final remedial efforts associated with the subject incident were completed. This report has been prepared in order to provide full details of the completed remedial efforts at the Site.

A *Topographic Map* and aerial *Area Map* depicting the Site location and surrounding areas are attached. A *Remediation Area Overview Map* is also attached which illustrates the various incident areas at the Site, as well as the locations of the Eastern Off-Pad Area, Former Drill Pit Area, and Southern Off-Pad Area that are the subject of this report and which were addressed as part of the subject incident.

2.0 SITE REMEDIATION

2.1 Closure Criteria

Based upon the site characterization details[1] provided in the October 12, 2021 *Remediation Plan*, and as a result of the above-discussed qualitative NMOCD directives, the Site was remediated to the Table 1 19.15.29.12 NMAC (groundwater 0'-50' feet) criteria (Table 1 Criteria). Additionally, the remediation activities were completed to bring the surface to four-foot depth interval into compliance with the Restoration, Reclamation and Re-Vegetation criteria (Reclamation Criteria) detailed in 19.15.29.13 NMAC. The NMAC 19.15.29 criteria is detailed below:

REGULATORY STANDARD	CHLORIDE	TPH (GRO+DRO +MRO)	BTEX	BENZENE
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW ≤50') & 19.15.29.13 NMAC Restoration, Reclamation and Re-Vegetation (Soils 0'-4')	600	100[2]	50[2]	10[2]

All Values Presented in Parts Per Million (mg/Kg)

1. *Full site characterization details are included in the Site Characterization and Proposed Remediation Work Plan, dated October 12, 2021.*
2. *Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of Digital C-141 and the release rule (19.15.29 NMAC) dated December 1, 2023.*

2.2 Impacted Soil Removal and Remediation Summary

Soil remedial operations in areas associated with the subject incident were conducted from May 10, 2022 to November 25, 2024. The initial removal operations commenced in the Eastern Off-Pad Area and then were extended into the Former Drill Pit Area and Southern Off-Pad Area.

Field readings were continuously collected throughout the excavation process to guide the horizontal and vertical extents of the excavation and qualitatively assess the cleanup progress. The field screening activities conducted by Ranger personnel during the soil excavation process involved the usage of an organic vapor monitor (OVM) and field chloride titration kit to assist in

guiding the excavation to appropriate boundaries. Upon reaching boundaries in an area which appeared to have attained the site closure criteria based upon the field screening results, cleanup confirmation soil samples were then collected for laboratory analysis in accordance with the approved Remediation Plan. Prior to each cleanup confirmation soil sampling event, appropriate notice was provided to the NMOCD in accordance with NMAC 19.15.29.12 (D). Copies of the notifications are attached.

Numerous cleanup confirmation soil sampling events were ultimately conducted to verify the field readings and confirm whether or not the site closure criteria had been attained. In the event that the cleanup confirmation soil sampling results indicated that the site closure criteria had not been attained, then additional over-excavation and re-sampling of those areas was conducted.

The cleanup confirmation soil samples were collected in accordance with NMAC 19.15.29.12 Subsection D as representative five-point composite samples from the sidewalls and base. The samples were collected and managed using standard QA/QC and chain-of-custody procedures. Ranger personnel wore new nitrile gloves while handling each sample in order to prevent cross-contamination of samples.

The collected soil samples were containerized in sterile, laboratory-suppled containers and were subsequently sealed in one or more zip lock bags and stored in a sample shuttle containing ice until arrival at the laboratory for chemical analysis. All sample containers were labeled with the project name, sample identification, date and time of sample collection, and samplers' initials. Chain-of-custody forms were completed to document sample transport to the analytical laboratory.

Upon collection, the soil samples were submitted to Eurofins Albuquerque (formerly Hall Environmental Analysis Laboratory, Inc.) in Albuquerque, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and, total chloride using EPA Method 300. Copies of the laboratory analytical reports including chain-of-custody documentation are attached. Summary tables of the soil analytical results are provided in the *Tables* section of this report. Any results presented with a "strikethrough" indicate that those sample areas were further over-excavated and resampled.

Below is a summary of additional details pertaining to the soil remediation and cleanup confirmation sampling activities conducted within the Eastern Off-Pad Area, Former Drill Pit Area, and Southern Off-Pad Area.

2.2.1 Eastern Off-Pad Area

As stated above, remedial operations in the Eastern Off-Pad Area were initiated on May 10, 2022. The initial remedial efforts were completed in accordance with the methodologies outlined in the NMOCD approved *Remediation Plan*. The operations included the removal of soils exhibiting chloride concentrations elevated above the Table 1 and Reclamation Criteria to an initial depth of six feet below ground surface (bgs). As detailed in the *Remediation Plan*, additional removal beyond six feet bgs was completed in select locations where it was anticipated that removal to the target Table 1 Criteria was safely achievable. In locations adjacent to the Former Drill Pit Area limited soil removal was completed so that the integrity of the former pit would not be compromised. These areas were to be covered by a geosynthetic clay liner (GCL) to ensure the protection of the underlying groundwater.

As detailed in the *Remediation Plan Update*, elevated soil chloride concentrations remained in various locations within the Eastern Off-Pad Area. Additional vertical delineation assessment activities were subsequently completed to determine if excavation to boundaries within the applicable Table 1 Criteria was practical. Based on the results of the vertical delineation activities, additional areas were excavated to boundaries within the applicable closure criteria.

Due to the uncertainty regarding the extent of remediation that would be considered appropriate for closure by the NMOCD, the site remediation plan was altered to utilize soil excavation as the only site remediation method (i.e. - with no GCL) and to attain the Table 1 Criteria (GW ≤50') and Reclamation Criteria within all affected areas. As such, the remaining base areas in the Eastern Off-Pad Area were subsequently over-excavated, as well as the areas adjacent to the Former Drill Pit Area, until the closure criteria were attained.

As proposed and approved by the NMOCD in the *Remediation Plan*, cleanup confirmation soil samples in the Eastern Off-Pad Area were collected as five-part composite samples representative of no more than 400 square feet. Excavation sidewall samples were collected in accordance with NMAC 19.15.29.12 Subsection D as representative five-point composite samples representative of no more than 200 square feet. In total, 173 cleanup confirmation soil samples were collected and analyzed from the Eastern Off-Pad Area.

Lastly, it should be noted that several sample locations associated with the Eastern Off-Pad Area ultimately overlapped with the impact/remediation areas associated with the adjacent Former Drill Pit Area and the Wellhead Impact Area (NMOCD Incident nAPP2123047534). These areas were ultimately addressed during the remediation of the Former Drill Pit Area and the Wellhead Impact Area.

2.2.2 Southern Off-Pad Area

As detailed in the *Remediation Plan Update*, this area was initially intended to be remediated in accordance with the methodologies outlined in the NMOCD approved *Remediation Plan*. However, due to the uncertainty regarding the extent of remediation that would be considered appropriate for closure by the NMOCD, the site remediation plan was altered to utilize soil excavation as the only remediation method (i.e. - with no GCL) and to attain the Table 1 Criteria (GW ≤50') and Reclamation Criteria within all affected areas.

The cleanup confirmation soil samples collected from the Southern Off-Pad Area were collected in accordance with NMAC 19.15.29.12 Subsection D as representative five-point composite samples from the sidewalls and base where each composite sample was not representative of more than 200 square feet. In total, 58 cleanup confirmation soil samples were collected and analyzed from the Southern Off-Pad Area.

2.2.3 Former Drill Pit Area

As detailed in the *Remediation Plan*, the initial remedial strategy for the Former Drill Pit Area involved the removal of soils overlying the existing plastic pit liner, the installation of a GCL, and the subsequent placement of a two-foot topsoil cap over the area. The removal of the soils overlying the existing plastic pit liner was completed in July and August 2022. Soils overlying the former drill pit were excavated to depths ranging from approximately eight inches to one-foot bgs until the existing plastic pit liner, drill pit material, and/or other evidence of the pit were encountered.

As summarized above, during the November 29, 2022 videoconference meeting with the NMOCD, the previously approved remedial strategy for the former drill pit area (limited soil removal and GCL installation) was rescinded by the NMOCD, and the NMOCD requested that additional vertical delineation be conducted within the former drill pit area. Following completion of the requested vertical delineation activities, the NMOCD ultimately provided directives for removal of the "chloride mass" in the Former Drill Pit Area to extents "as safely possible." Due to the denial of the utilization of a GCL and the uncertainty regarding the extent of remediation that would be considered appropriate for closure by the NMOCD, the remediation plan for the former drill pit area was altered to utilize soil excavation as the only remediation method (i.e. - with no GCL) and to attain the Table 1 Criteria (GW ≤50') and Reclamation Criteria throughout the pit area.

Based on the results of the prior EM survey and the soil delineation activities, two areas of significant chloride mass were identified within the former drill pit area. One of these areas was in the eastern portion of the former drill pit adjacent to the Eastern Off-Pad Area (dubbed the "Eastern Pit Area"). The second area was located along the western boundary of the former drill pit (dubbed the "Western Pit Area"). The remaining footprint of the Former Drill Pit Area where elevated chloride concentrations were present at shallower depths (surface to approximately five feet bgs) was dubbed the "Pit Surface Area." These areas are illustrated on the attached *Remediation Area Overview Map*.

From April 2024 through November 2024, continued soil removal, assessment, and cleanup confirmation sampling activities were completed in the Former Drill Pit Area. The cleanup confirmation soil samples were collected in accordance with NMAC 19.15.29.12 Subsection D as representative five-point composite samples representative of no more than 200 square feet. In total, 329 cleanup confirmation soil samples were collected from the Former Drill Pit Area.

2.3 Final Excavation Dimensions and Cleanup Confirmation Soil Sample Results

Upon completion of the soil removal activities in the Eastern Off-Pad Area, the excavation dimensions measured approximately 263 feet by 224 feet by approximately 6 feet to 14 feet deep.

Upon completion of the soil removal operations, the Southern Off-Pad Area excavation dimensions measured approximately 129 feet by 105 feet by approximately 4 feet to 12 feet deep.

Upon completion of the soil removal activities in the Former Drill Pit Area, the Pit Surface Area excavation had maximum dimensions of approximately 266 feet by 215 feet by four to five feet deep. The Eastern Pit Area excavation had maximum dimensions of approximately 80 feet by 82 feet by 12 feet to 24 feet deep. The Western Pit Area excavation had maximum dimensions of approximately 135 feet by 153 feet by 10 feet to 20 feet deep.

2.3.1 Eastern Off-Pad Area

A *Final Excavation Area and Confirmation Sample Location Map – Eastern Off-Pad Area* is provided in the Figures section which illustrates the completed excavation boundaries and the locations of the final cleanup confirmation soil samples. The attached "*Eastern Off-Pad Area - Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data*" table provides a comprehensive summary of the laboratory analytical results for the cleanup confirmation soil samples collected during the remediation process. The final cleanup confirmation soil samples for the Eastern Off-Pad Area documented attainment of the Table 1 Criteria (GW ≤50') and Reclamation Criteria summarized in Section 2.1.

2.3.2 Southern Off-Pad Area

A *Final Excavation Area and Confirmation Sample Location Map – Southern Off-Pad Area* is provided in the Figures section which illustrates the completed excavation boundaries and the locations of the final cleanup confirmation soil samples. The attached "*Southern Off-Pad Area - Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data*" table provides a comprehensive summary of the laboratory analytical results for the cleanup confirmation soil samples collected during the remediation process. The final cleanup confirmation soil samples for the Southern Off-Pad Area documented attainment of the Table 1 Criteria (GW ≤50') and Reclamation Criteria summarized in Section 2.1.

2.3.3 Former Drill Pit Area

As detailed above, remediation of the Former Drill Pit Area was completed in three areas dubbed the Eastern Pit Area, Pit Surface Area, and Western Pit Area. Included in the Figures section of the report are *Final Excavation Area & Confirmation Sample Location Maps* for each of these three areas which depict the completed excavation boundaries and locations of the final cleanup confirmation soil samples. Provided in the Tables section of this report is a "*Pit Area (Eastern Pit Area, Pit Surface Area, & Western Pit Area) - Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data*" table that provides a comprehensive summary of the laboratory analytical results for the cleanup confirmation soil samples collected from the three pit areas during the remediation process. The final cleanup confirmation soil samples for the Former Drill Pit Area documented attainment of the Table 1 Criteria (GW ≤50') and Reclamation Criteria summarized in Section 2.1.

2.4 Waste Disposal

All soils generated during the remedial excavation activities at the Site were transported to disposal at either the Lea Land disposal facility in Eddy County, New Mexico or the Gandy Marley disposal facility located in Chavez County, New Mexico.

3.0 SITE CLOSURE

3.1 Site Completion & Backfill

Upon successfully completing remediation to boundaries where soil concentrations were documented to be within the target closure criteria, the areas were backfilled with clean fill material in accordance with NMAC 19.15.29.12 and NMAC 19.15.29.13. At the time of this report, backfilling of the excavated areas is ongoing.

3.2 Site Revegetation & Reclamation

Since the Site is no longer active, revegetation and reclamation efforts will be completed in accordance with NMAC 19.15.29.13. Full details of the Site revegetation and reclamation efforts will be submitted in a subsequent *Site Reclamation Report*.

3.3 Closure Request

Based on the completed site remediation and cleanup confirmation soil sampling activities, the site has been properly addressed pursuant to NMAC 19.15.29 and EOG respectfully requests closure of the incident.

FIGURES

Topographic Map

Area Map

Area Identification Map (nAPP2111046250)

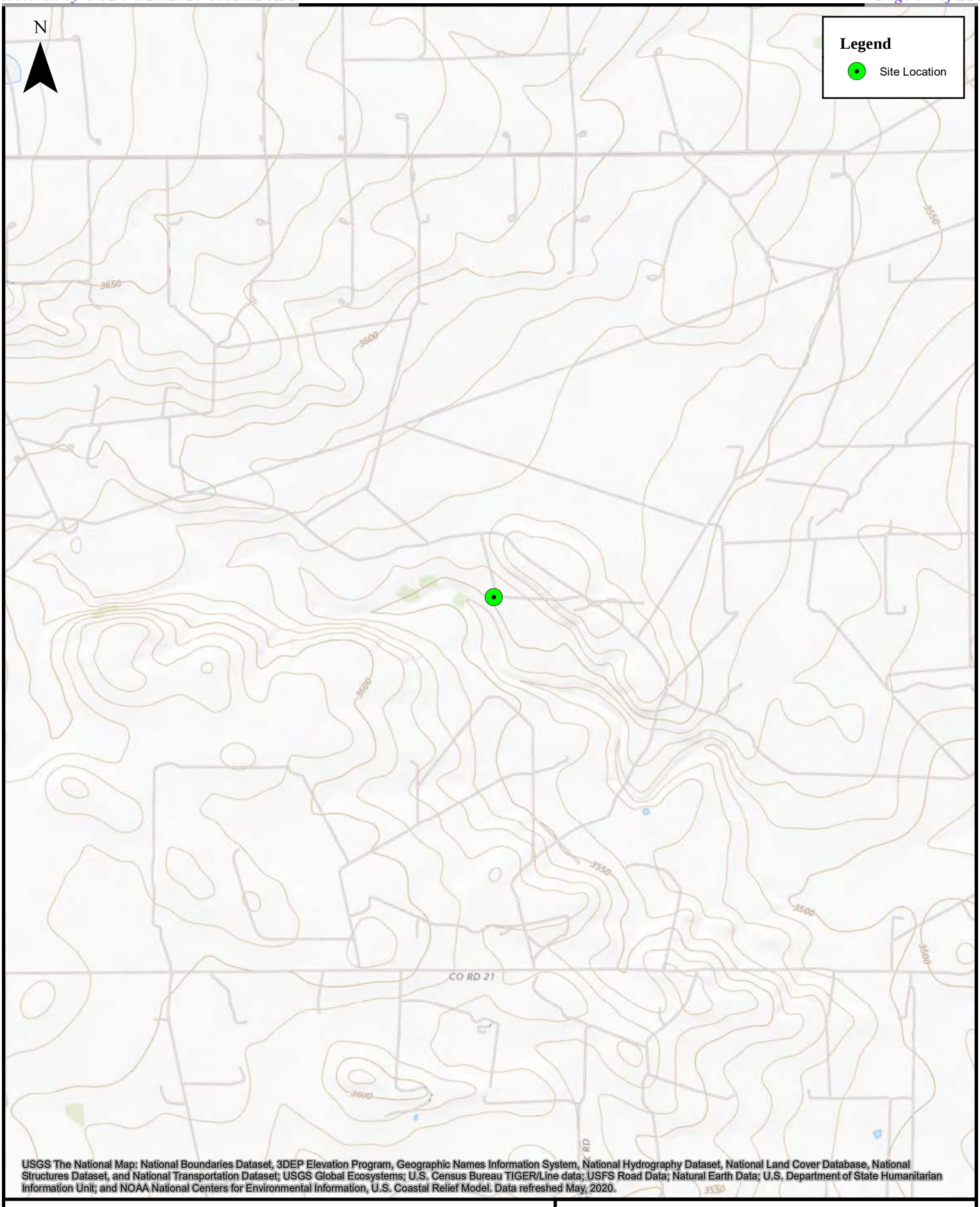
Final Excavation & Confirmation Sample Location Map – Eastern Off-Pad Area

Final Excavation & Confirmation Sample Location Map – Southern Off-Pad Area

Final Excavation & Confirmation Sample Location Map – Eastern Pit Area

Final Excavation & Confirmation Sample Location Map – Pit "Surface" Area

Final Excavation & Confirmation Sample Location Map – Western Pit Area



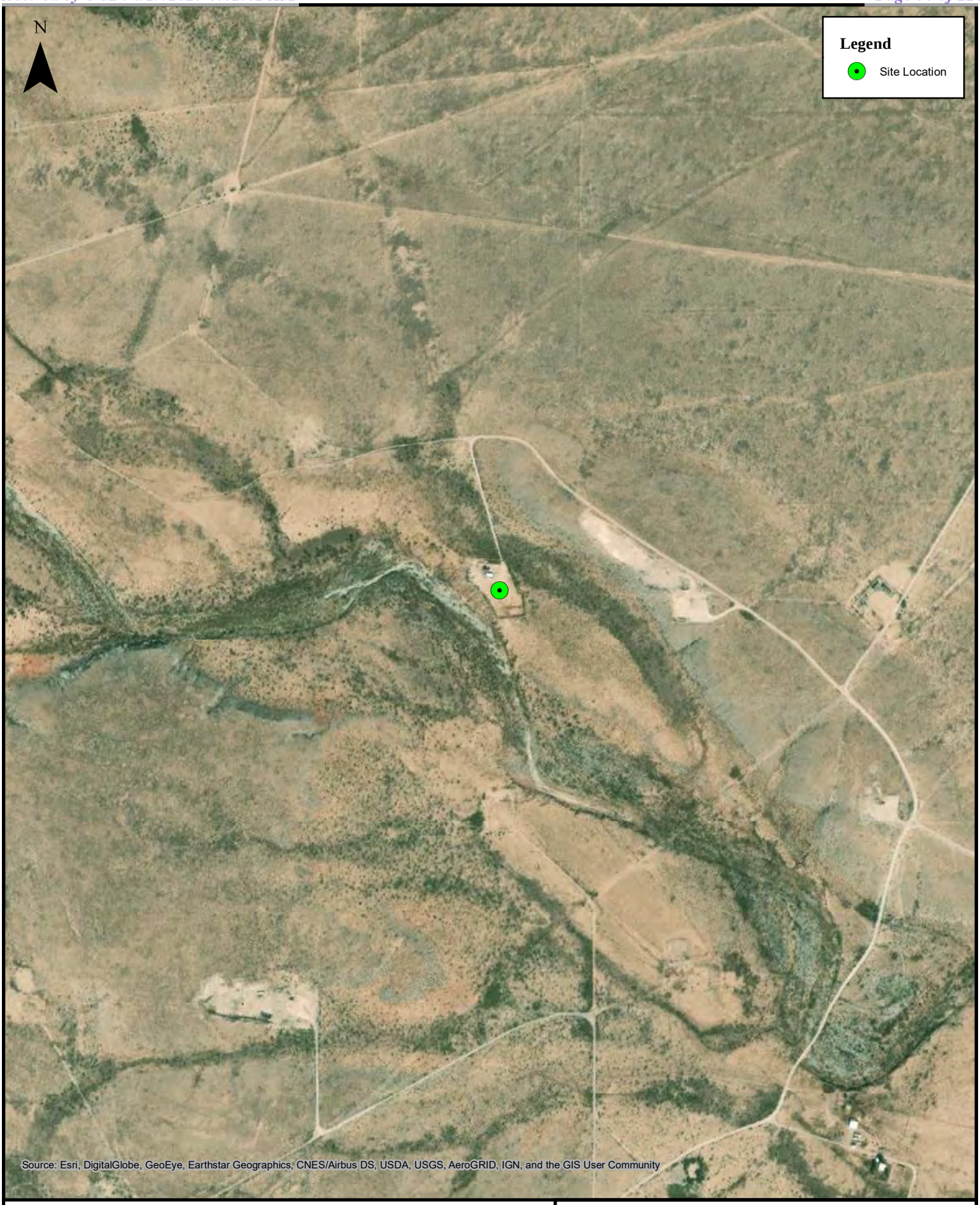
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed May, 2020.

RANGER ENVIRONMENTAL SERVICES, LLC

0 600 1,200 2,400 3,600 4,800 Feet

1:24,000

Topographic Map
Roy SWD #3
EOG Resources, Inc.

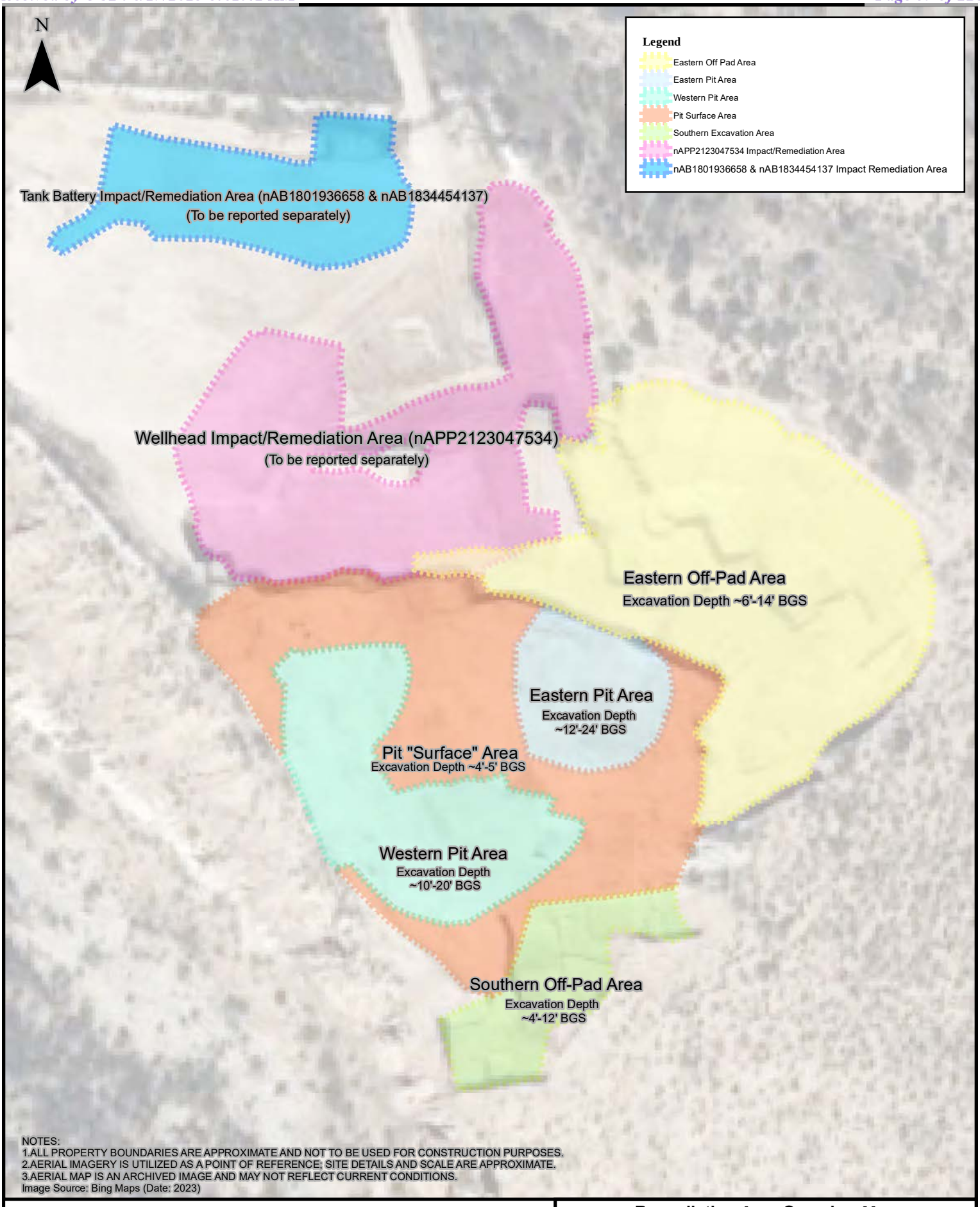


RANGER ENVIRONMENTAL SERVICES, LLC

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1:10,000

Area Map
Roy SWD #3
EOG Resources, Inc.



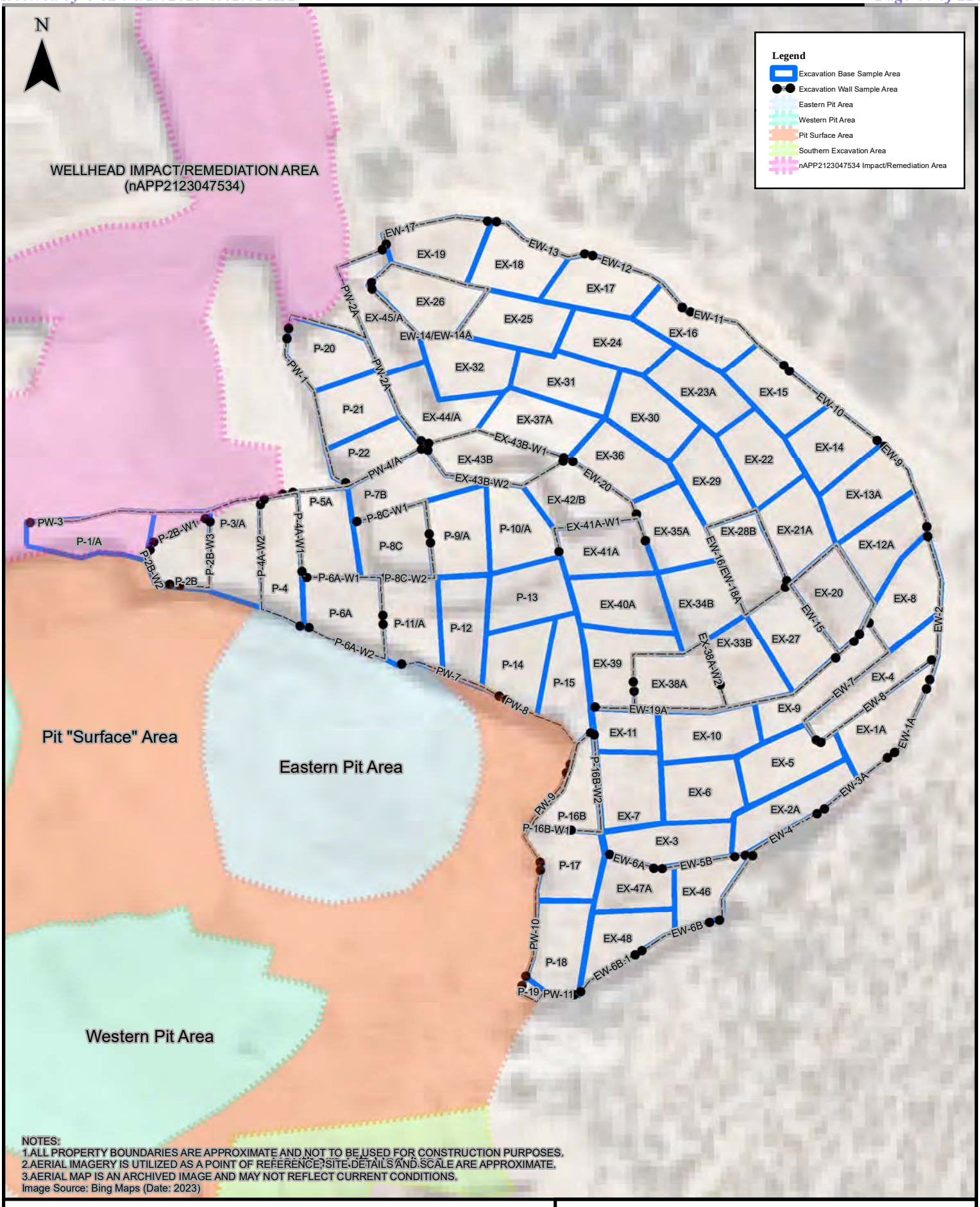
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Bing Maps (Date: 2023)

RANGER ENVIRONMENTAL SERVICES, LLC

0 12.5 25 50 75 100 Feet

1:750

Remediation Area Overview Map
(nAPP2111046250)
Roy SWD #3
EOG Resources, Inc.



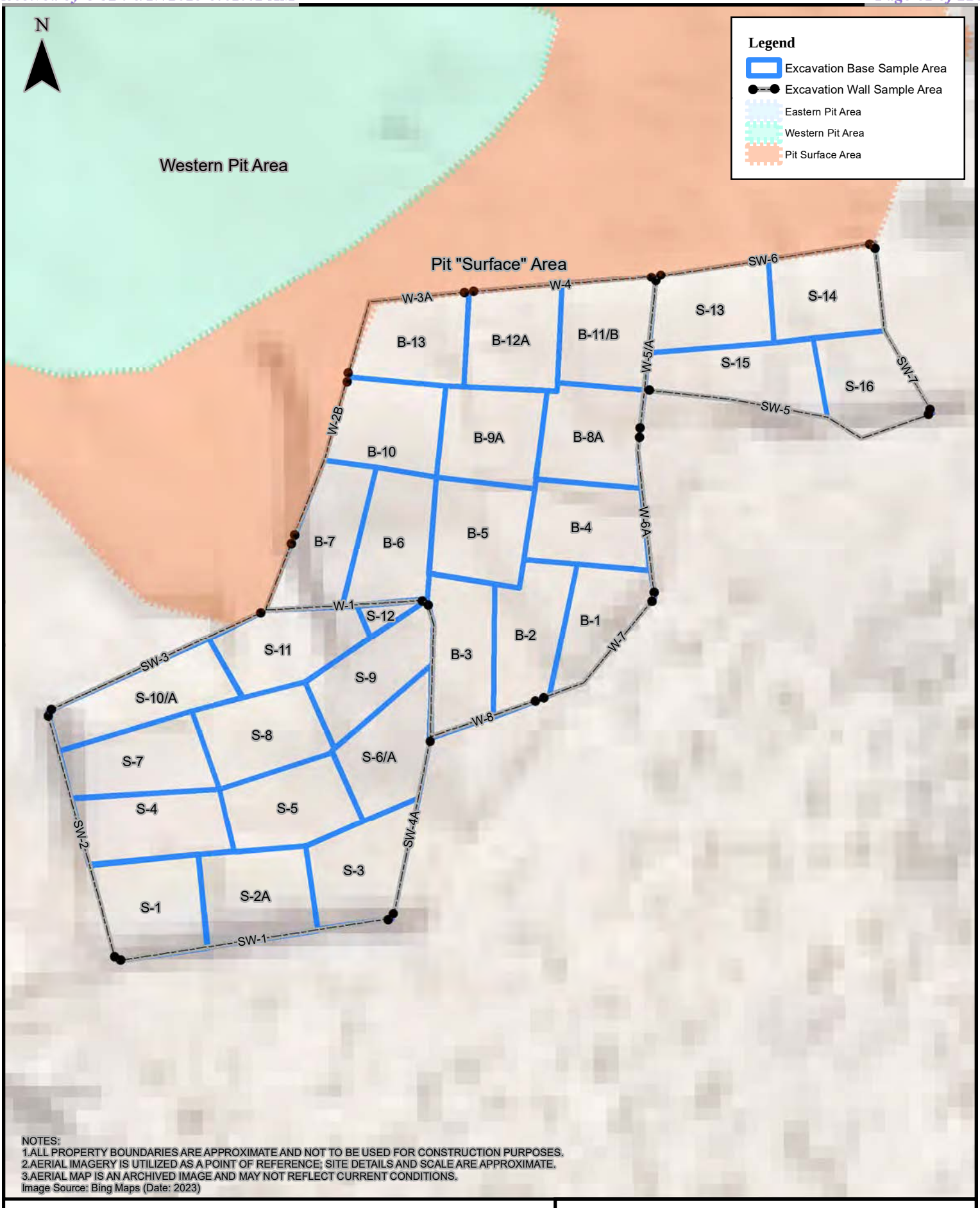
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2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Bing Maps (Date: 2023)

RANGER ENVIRONMENTAL SERVICES, LLC

0 5 10 20 30 40 Feet

1:425

Final Excavation Area & Confirmation Sample Location Map
Eastern Off-Pad Area
Roy SWD #3
EOG Resources, Inc.



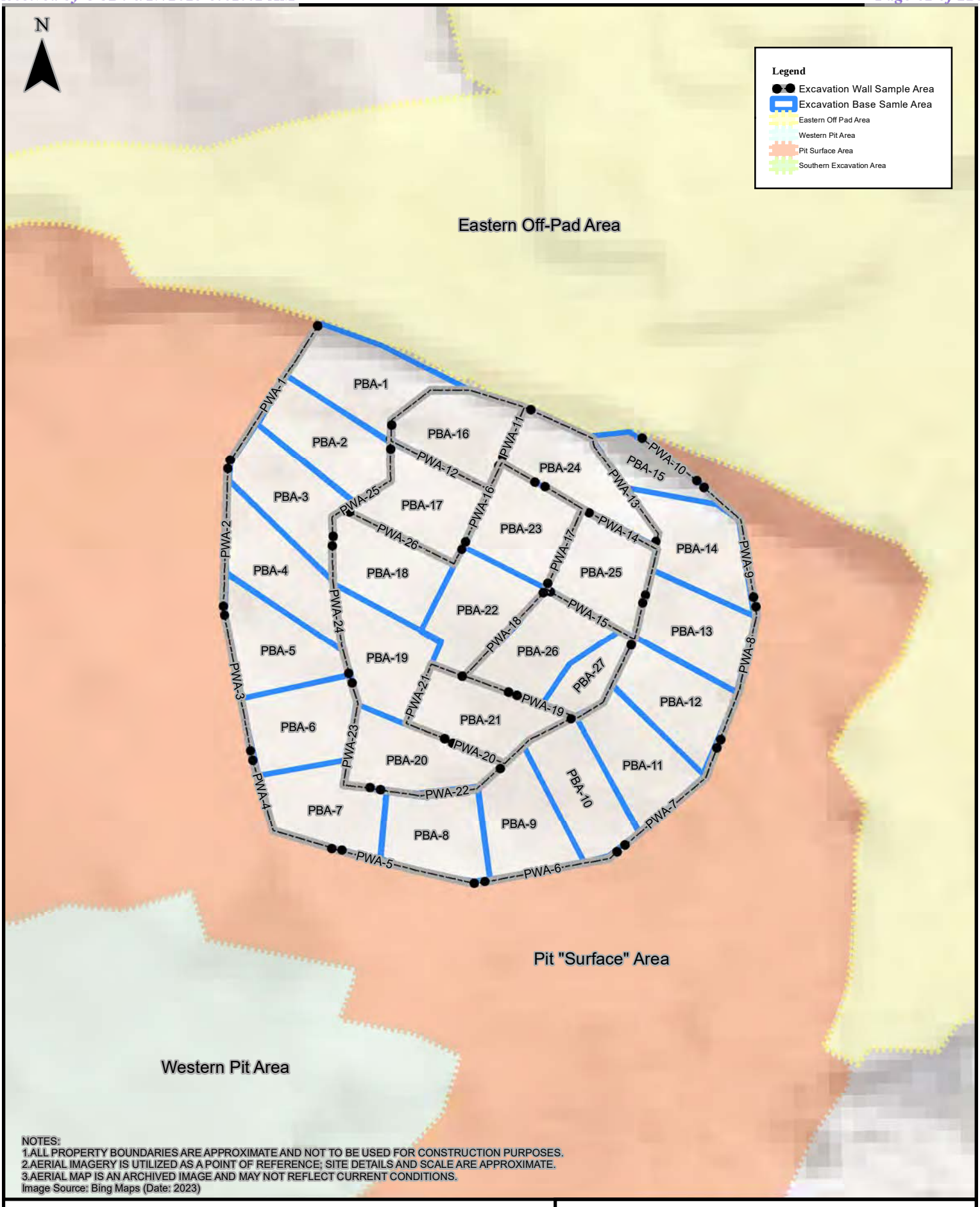
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Bing Maps (Date: 2023)

RANGER ENVIRONMENTAL SERVICES, LLC

0 4 8 16 24 32 Feet

1:213

Final Excavation Area & Confirmation Sample Location Map
Southern Off-Pad Area
Roy SWD #3
EOG Resources, Inc.



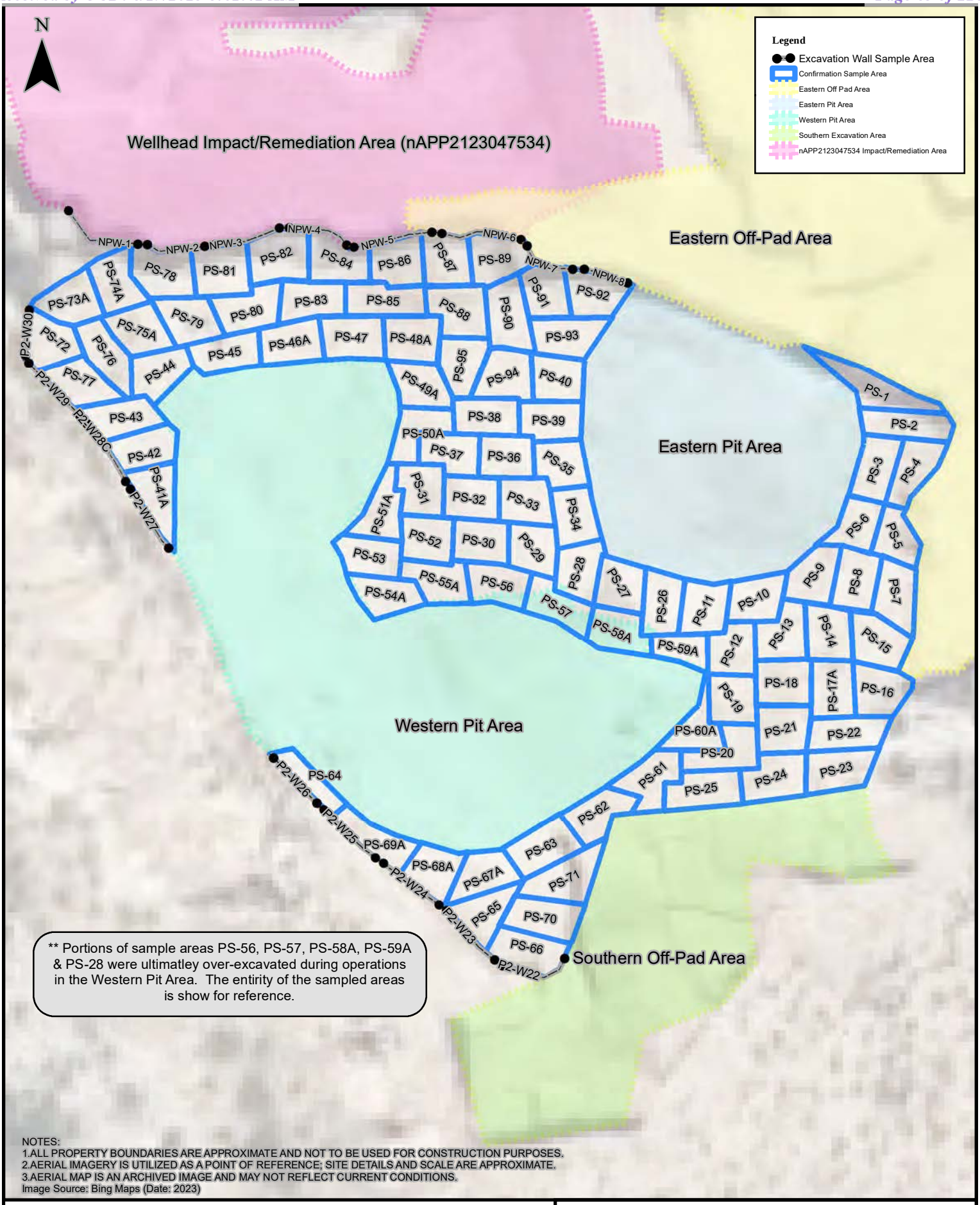
NOTES:
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2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Bing Maps (Date: 2023)

RANGER ENVIRONMENTAL SERVICES, LLC

0 4.25 8.5 17 25.5 34 Feet

1:225

Final Excavation Area & Confirmation Sample Location Map
Eastern Pit Area
Roy SWD #3
EOG Resources, Inc.



** Portions of sample areas PS-56, PS-57, PS-58A, PS-59A & PS-28 were ultimatley over-excavated during operations in the Western Pit Area. The entirity of the sampled areas is show for reference.

NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Bing Maps (Date: 2023)

RANGER ENVIRONMENTAL SERVICES, LLC

0 5 10 20 30 40 Feet

1:425

Final Excavation Area & Confirmation Sample Location Map
Pit "Surface" Area
Roy SWD #3
EOG Resources, Inc.



NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Bing Maps (Date: 2023)

RANGER ENVIRONMENTAL SERVICES, LLC

0 4.75 9.5 19 28.5 38 Feet

1:250

Final Excavation Area & Confirmation Sample Location Map
Western Pit Area
Roy SWD #3
EOG Resources, Inc.

TABLES

Eastern Off-Pad Area - Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

Southern Off-Pad Area Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

Pit Area (Eastern Pit Area, Pit “Surface” Area, & Western Pit Area) - Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

EASTERN OFF-PAD AREA
CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
Excavation Base Soil Samples													
~~EX-1~~	~~5/25/2022~~	~~8'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<9.5~~	~~<47~~	~~<9.5~~	~~<47~~	~~660~~
EX-1A	7/12/2022	8.25'	<0.021	<0.043	<0.043	<0.085	<0.09	<4.3	<14	<48	<14	<48	500
~~EX-2~~	~~5/25/2022~~	~~8'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<9.5~~	~~<48~~	~~<9.5~~	~~<48~~	~~750~~
EX-2A	7/12/2022	8.25'	<0.023	<0.046	<0.046	<0.091	<0.09	<4.6	<15	<48	<15	<48	540
EX-3	5/25/2022	8'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.5	<47	<9.5	<47	590
EX-4	5/16/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.6	<48	<9.6	<48	530
EX-5	5/16/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.7	<49	<9.7	<49	550
EX-6	5/25/2022	8'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.6	<48	<9.6	<48	540
EX-7	5/25/2022	8'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.8	<49	<9.8	<49	590
EX-8	5/16/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.7	<49	<9.7	<49	210
EX-9	5/25/2022	8'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<15	<49	<15	<49	520
EX-10	5/25/2022	8'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.8	<49	<9.8	<49	520
EX-11	5/25/2022	8'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.6	<48	<9.6	<48	530
~~EX-12~~	~~6/3/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~670~~
EX-12A	6/20/2022	6.5'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<47	<14	<47	520
~~EX-13~~	~~6/3/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~640~~
EX-13A	6/20/2022	6.5'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<47	<14	<47	510
EX-14	6/3/2022	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<47	<14	<47	450
EX-15	6/3/2022	6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<15	<49	<15	<49	550
EX-16	6/3/2022	6'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<47	<14	<47	510
EX-17	6/3/2022	6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<14	<47	<14	<47	540
EX-18	6/3/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<50	<15	<50	460
EX-19	6/6/2022	6.5'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<46	<14	<46	360
EX-20	6/6/2022	8'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<47	<14	<47	560
~~EX-21~~	~~6/3/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~780~~
EX-21A	6/7/2022	7'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<47	<14	<47	600
EX-22	6/3/2022	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<46	<14	<46	410
~~EX-23~~	~~6/3/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~680~~
EX-23A	6/20/2022	6.5'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<14	<47	<14	<47	380
EX-24	6/3/2022	6'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<15	<50	<15	<50	280
EX-25	6/3/2022	6'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<14	<47	<14	<47	450
EX-26	6/6/2022	8'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<49	<15	<49	410
EX-27	6/6/2022	6.5'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<48	<14	<48	450
~~EX-28~~	~~6/6/2022~~	~~8'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<46~~	~~<14~~	~~<46~~	~~860~~
~~EX-28A~~	~~6/20/2022~~	~~9'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.09~~	~~<4.7~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~720~~
EX-28B	7/26/2022	10'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<49	<15	<49	190
EX-29	6/3/2022	6'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<14	<46	<14	<46	290
EX-30	6/3/2022	6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<50	<15	<50	360
EX-31	6/6/2022	6.5'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<51	<15	<51	190
EX-32	6/6/2022	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<13	<44	<13	<44	200
~~EX-33~~	~~6/7/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~830~~
~~EX-33A~~	~~7/26/2022~~	~~7'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.095~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~710~~
EX-33/B	8/8/2022	8'	<0.016	<0.031	<0.031	<0.062	<0.06	<3.1	<14	<46	<14	<46	170
~~EX-34~~	~~6/7/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~710~~
~~EX-34A~~	~~7/26/2022~~	~~10'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~690~~
EX-34/B	8/8/2022	11'	<0.015	<0.030	<0.030	<0.060	<0.06	<3.0	<14	<48	<14	<48	310
~~EX-35~~	~~6/7/2022~~	~~6'~~	~~<0.023~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.09~~	~~<4.7~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~760~~
EX-35A	7/26/2022	7'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<14	<47	<14	<47	560
EX-36	6/7/2022	6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<48	<14	<48	390
~~EX-37~~	~~6/7/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~670~~
EX-37A	7/26/2022	8'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<13	<44	<13	<44	110
~~EX-38~~	~~6/7/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.10~~	~~<5.0~~	~~<13~~	~~<44~~	~~<13~~	~~<44~~	~~1,200~~
EX-38A	3/11/2024	14'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.2	<46	<9.2	<46	<60
EX-39	7/7/2022	8'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<50	<15	<50	390
~~EX-40~~	~~7/7/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~2,300~~
EX-40A	3/11/2024	11'	<0.024	<0.047	<0.047	<0.095	<0.10	<4.7	<9.2	<46	<9.2	<46	560
~~EX-41~~	~~7/7/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<45~~	~~<14~~	~~<45~~	~~990~~
EX-41A	3/11/2024	12'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.7	<48	<9.7	<48	340
~~EX-42~~	~~6/7/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~2,000~~
~~EX-42/A~~	~~8/5/2022~~	~~9'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~1,400~~
EX-42/B	8/22/2022	10'	<0.019	<0.037	<0.037	<0.074	<0.07	<3.7	<15	<49	<15	<49	470
~~EX-43~~	~~7/7/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~2,400~~
~~EX-43/A~~	~~8/25/2022~~	~~9'~~	~~<0.022~~	~~<0.043~~	~~<0.043~~	~~<0.087~~	~~<0.09~~	~~<4.3~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~1,000~~
EX-43B	3/11/2024	12'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.6	<48	<9.6	<48	<60
~~EX-44~~	~~6/7/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~1,100~~
EX-44/A	8/5/2022	9'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<45	<14	<45	220
~~EX-45~~	~~6/7/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~660~~
EX-45/A	8/5/2022	9'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<50	<15	<50	600
EX-46	7/12/2022	7'-8'	<0.021	<0.043	<0.043	<0.086	<0.09	<4.3	<15	<48	<15	<48	<60
~~EX-47~~	~~7/12/2022~~	~~7'-8'~~	~~<0.018~~	~~<0.037~~	~~<0.037~~	~~<0.074~~	~~<0.07~~	~~<3.7~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~940~~
EX-47A	7/26/2022	9'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<49	<15	<49	600
EX-48	7/12/2022	6'-7'	<0.018	<0.035	<0.035	<0.071	<0.07	<3.5	<13	<45	<13	<45	540
P-1	7/8/2022	0-4'	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~750~~
~~P-1/A~~	~~8/25/2022~~	~~6'~~	~~<0.020~~	~~<0.039~~	~~<0.039~~	~~<0.078~~	~~<0.08~~	~~<3.9~~	~~<13~~	~~<43~~	~~<13~~	~~<43~~	~~940~~
*****Sample Area P-1 / P-1/A was ultimately over-excavated and addressed during the remediation activites in the Northern Well Pad Area (NMOCD Incident #nAPP2123047534)*****													
P-2	7/8/2022	3'-4'	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~1,600~~
~~P-2/A~~	~~8/25/2022~~	~~6'~~	~~<0.018~~	~~<0.036~~	~~<0.036~~	~~<0.072~~	~~<0.07~~	~~<3.6~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~1,000~~

NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

EASTERN OFF-PAD AREA
CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
P-2B	3/11/2024	8'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<8.9	<45	<8.9	<45	62
~~P-3~~	~~7/8/2022~~	~~4'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~1,200~~
P-3/A	8/25/2022	6'	<0.020	<0.041	<0.041	<0.082	<0.08	<4.1	<15	<49	<15	<49	400
~~P-4~~	~~7/8/2022~~	~~6'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<46~~	~~<14~~	~~<46~~	~~1,600~~
P-4A	3/11/2024	10'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.5	<48	<9.5	<48	180
~~P-5~~	~~7/8/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<45~~	~~<14~~	~~<45~~	~~4,300~~
P-5A	3/11/2024	10'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	11	<49	<9.7	<49	320
~~P-6~~	~~7/8/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~1,700~~
P-6A	3/11/2024	11'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.3	<46	<9.3	<46	180
~~P-7~~	~~7/8/2022~~	~~6'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~2,400~~
~~P-7/A~~	~~8/5/2022~~	~~7'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~660~~
P-7B	8/25/2022	8'	<0.021	<0.042	<0.042	<0.084	<0.08	<4.2	<14	<47	<14	<47	<60
~~P-8~~	~~7/8/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<48~~	~~<15~~	~~<48~~	~~740~~
~~P-8/B~~	~~8/25/2022~~	~~8'~~	~~<0.016~~	~~<0.033~~	~~<0.033~~	~~<0.066~~	~~<0.07~~	~~<3.3~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~1,000~~
P-8C	3/11/2024	11'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.5	<48	<9.5	<48	<60
~~P-9~~	~~7/8/2022~~	~~6'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<46~~	~~<14~~	~~<46~~	~~720~~
P-9/A	8/5/2022	8'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<14	<48	<14	<48	170
~~P-10~~	~~7/8/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<48~~	~~<15~~	~~<48~~	~~1,300~~
P-10/A	8/5/2022	8'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<46	<14	<46	<60
~~P-11~~	~~7/8/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~2,200~~
P-11/A	8/5/2022	7'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<47	<14	<47	180
P-12	7/8/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<49	<15	<49	180
P-13	7/8/2022	6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<49	<15	<49	590
P-14	7/8/2022	6'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<50	<15	<50	230
P-15	7/8/2022	6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<50	<15	<50	580
~~P-16~~	~~7/8/2022~~	~~4'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~900~~
~~P-16/A~~	~~8/25/2022~~	~~6'~~	~~<0.018~~	~~<0.035~~	~~<0.035~~	~~<0.071~~	~~<0.07~~	~~<3.5~~	~~<15~~	~~<48~~	~~<15~~	~~<48~~	~~960~~
P-16B	3/11/2024	14'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.5	<47	<9.5	<47	190
P-17	7/8/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<15	<49	<15	<49	490
P-18	7/8/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<50	<15	<50	67
P-19	7/8/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<15	<50	190
P-20	7/8/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<50	<15	<50	220
P-21	7/8/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<50	<15	<50	68
P-22	7/8/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<15	<50	<15	<50	470
Excavation Wall Soil Samples													
~~EW-1~~	~~5/25/2022~~	~~0'-8'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.10~~	~~<4.9~~	~~<9.1~~	~~<46~~	~~<9.1~~	~~<46~~	~~720~~
EW-1A	6/9/2022	0'-8'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<15	<49	<15	<49	480
EW-2	5/16/2022	0'-8'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.5	<48	<9.5	<48	240
~~EW-3~~	~~5/25/2022~~	~~0'-8'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<9.4~~	~~<47~~	~~<9.4~~	~~<47~~	~~840~~
EW-3A	6/9/2022	0'-8'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<46	<14	<46	470
EW-4	5/25/2022	0'-8'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<8.2	<41	<8.2	<41	550
~~EW-5~~	~~5/25/2022~~	~~0'-8'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.09~~	~~<4.7~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~700~~
EW-5A	6/9/2022	0'-8'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<47	<14	<47	470
EW-5B	7/12/2022	0-8'	<0.027	<0.055	<0.055	<0.11	<0.11	<5.5	<14	<48	<14	<48	<60
~~EW-6~~	~~5/25/2022~~	~~0'-8'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.10~~	~~<4.9~~	~~<9.7~~	~~<48~~	~~<9.7~~	~~<48~~	~~750~~
EW-6A	6/9/2022	0'-8'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<46	<14	<46	470
EW-6B	7/12/2022	0-7'	<0.020	<0.039	<0.039	<0.079	<0.08	<3.9	<15	<49	<15	<49	<60
EW-6B.1	7/12/2022	0-6'	<0.018	<0.036	<0.036	<0.073	<0.07	<3.6	<15	<50	<15	<50	<60
EW-7	6/20/2022	4'-8'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<48	<14	<48	360
EW-8	6/20/2022	4'-8'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<14	<47	<14	<47	360
EW-9	6/3/2022	0'-6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<49	<15	<49	340
EW-10	6/3/2022	0'-6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<48	<14	<48	290
EW-11	6/3/2022	0'-6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<49	<15	<49	270
EW-12	6/3/2022	0'-6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<49	<15	<49	130
EW-13	6/3/2022	0'-6'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<46	<14	<46	310
EW-14	6/6/2022	4'-6'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<49	<15	<49	170
EW-14/A	8/5/2022	4'-9'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<15	<50	230
EW-15	6/6/2022	4'-6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<50	<15	<50	160
EW-16	6/6/2022	6'-8'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<45	<14	<45	160
EW-17	6/7/2022	0'-6'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<48	<14	<48	84
~~EW-18~~	~~6/20/2022~~	~~8'-9'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<13~~	~~<44~~	~~<13~~	~~<44~~	~~880~~
EW-18A	7/26/2022	8'-11'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<50	<15	<50	130
~~EW-19~~	~~7/7/2022~~	~~6'-8'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~740~~
EW-19A	7/26/2022	6'-8'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<48	<14	<48	150
EW-20	8/25/2022	6'-10'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<48	<14	<48	440
~~EW-21~~	~~8/25/2022~~	~~6'-11'~~	~~<0.021~~	~~<0.042~~	~~<0.042~~	~~<0.084~~	~~<0.08~~	~~<4.2~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~980~~
Sample Area EW-21 was ultimately addressed during the remediaiton of adjacent base excavation areas. Due to the completed depths, no wall area was available for sampling													
~~PW-1~~	~~7/8/2022~~	~~0-4'~~	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<50	<15	<50	320
~~PW-2~~	~~7/8/2022~~	~~0'-6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~1,500~~
PW-2/A	8/5/2022	4'-9'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<48	<14	<48	<60
~~PW-3~~	~~7/8/2022~~	~~0-4'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~2,300~~
Sample Area PW-3 was ultimately over-excavated during the remediation activites in the Northern Well Pad Area (NMOCD Incident #nAPP2123047534)													
~~PW-4~~	~~7/8/2022~~	~~0-4'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~3,700~~
PW-4/A	8/5/2022	0'-9'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<48	<14	<48	<60
~~PW-5~~	~~7/8/2022~~	~~0-4'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<48~~	~~<15~~	~~<48~~	~~5,100~~
~~PW-6~~	~~7/8/2022~~	~~0-6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~680~~
NPW-6	5/24/2024	6'-10'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<8.5	<43	<8.5	<43	230

NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

EASTERN OFF-PAD AREA
CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
NPW-7	5/24/2024	0'- 6'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<8.7	<43	<8.7	<43	250
NPW-8	5/24/2024	0'-8'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.9	<49	<9.9	<49	230
PW-7	7/8/2022	0-6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<49	<15	<49	220
PW-8	7/8/2022	0-6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<15	<50	82
PW-9	7/8/2022	0-6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<14	<47	<14	<47	330
PW-10	7/12/2022	0-6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<50	<15	<50	<60
PW-11	7/8/2022	0-4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<49	<15	<49	<60
P-16B-W1	3/11/2024	6'-14'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.9	<49	<9.9	<49	140
P-16B-W2	3/11/2024	6'-14'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.6	<48	<9.6	<48	<61
P-8C-W1	3/11/2024	8'-11'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.4	<47	<9.4	<47	300
P-8C-W2	3/11/2024	8'-11'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.7	<49	<9.7	<49	440
P-6A-W1	3/11/2024	6'-11'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.9	<49	<9.9	<49	420
P-6A-W2	3/11/2024	6'-11'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.5	<48	<9.5	<48	240
P-4A-W1	3/11/2024	6'-10'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.4	<47	<9.4	<47	270
P-4A-W2	3/11/2024	6'-10'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	11	<47	11	11	260
P-2B-W1	4/17/2024	4'-8'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.5	<47	<9.5	<47	360
P-2B-W2	4/17/2024	4'-8'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.1	<45	<9.1	<45	300
P-2B-W3	4/17/2024	4'-8'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.4	<47	<9.4	<47	360
EX-38A-W1	3/11/2024	6'-14'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<47	<9.3	<47	210
EX-38A-W2	3/11/2024	6'-14'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	,<9.2	<46	<9.2	<46	240
EX-41A-W1	3/11/2024	6'-12'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.8	<49	<9.8	<49	300
EX-43B-W1	3/11/2024	9'-12'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<10	<50	<10	<50	410
EX-43B-W2	3/11/2024	9'-12'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.5	<48	<9.5	<48	260
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW <50')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**---**	**100**	**600**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**10[3]**				**50[3]**					**100[3]**	**600**

Notes:

1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.
2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.
3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document *Procedures for the Implementation of the Spill Rule* (19.15.29 NMAC) dated September 6, 2019.
4. Strikethrough Indicates that a sample area has been over-excavated.

NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SOUTHERN OFF-PAD AREA
CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
Excavation Base Soil Samples													
S-1	7/28/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<14	<47	<14	<47	420
~~S-2~~	~~7/28/2022~~	~~4'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~620~~
S-2A	8/16/2022	4'-5.5	<0.020	<0.041	<0.041	<0.081	<0.08	<4.1	<15	<49	<15	<49	390
S-3	7/28/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<46	<14	<46	340
S-4	7/28/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<47	<14	<47	350
S-5	7/28/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<48	<14	<48	600
~~S-6~~	~~7/28/2022~~	~~4'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<48~~	~~<15~~	~~<48~~	~~630~~
S-6/A	8/16/2022	6'	<0.019	<0.038	<0.038	<0.077	<0.08	<3.8	<14	<47	<14	<47	490
S-7	7/28/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<49	<15	<49	350
S-8	7/28/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<49	<15	<49	320
S-9	7/28/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<48	<14	<48	370
~~S-10~~	~~7/28/2022~~	~~4'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~620~~
S-10/A	8/16/2022	4.5'	<0.024	<0.048	<0.048	<0.096	<0.10	<3.5	<15	<50	<15	<50	480
S-11	7/28/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<48	<14	<48	520
S-12	7/28/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<15	<49	<15	<49	130
S-13	7/28/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<49	<15	<49	300
S-14	7/28/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<50	<15	<50	350
S-15	7/28/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<49	<15	<49	420
S-16	7/28/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<50	<15	<50	360
B-1	8/5/2022	8'-9'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<49	<15	<49	410
B-2	8/5/2022	8'-9'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<50	<15	<50	470
B-3	8/5/2022	8'-9'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<15	<49	<15	<49	450
B-4	8/5/2022	8'-9'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<48	<15	<48	410
B-5	8/5/2022	8'-9'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<48	<15	<48	450
B-6	8/5/2022	6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<48	<14	<48	440
B-7	8/5/2022	6'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<50	<15	<50	390
~~B-8~~	~~8/5/2022~~	~~8'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<46~~	~~<14~~	~~<46~~	~~930~~
B-8A	8/24/2022	8.5'	<0.018	<0.035	<0.035	<0.070	<0.07	<3.5	<14	<47	<14	<47	<60
~~B-9~~	~~8/5/2022~~	~~8'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~1,000~~
B-9A	8/24/2022	9.5'	<0.019	<0.039	<0.039	<0.077	<0.08	<3.9	<14	<47	<14	<47	<60
B-10	8/5/2022	8'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<15	<49	<15	<49	580
~~B-11~~	~~8/5/2022~~	~~8'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~990~~
~~B-11A~~	~~8/25/2022~~	~~9'-10'~~	~~<0.020~~	~~<0.041~~	~~<0.041~~	~~<0.081~~	~~<0.08~~	~~<4.1~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~990~~
B-11/B	9/7/2022	12'	<0.019	<0.039	<0.039	<0.078	<0.08	<3.9	<14	<46	<14	<46	<60
~~B-12~~	~~8/5/2022~~	~~8'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.10~~	~~<5.0~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~770~~
B-12A	8/24/2022	8.5'	<0.016	<0.033	<0.033	<0.065	<0.07	<3.3	<15	<50	<15	<50	<60
B-13	8/5/2022	8'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<49	<15	<49	360
Excavation Side Wall Soil Samples													
SW-1	7/28/2022	0'-4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<13	<43	<13	<43	<60
SW-2	7/28/2022	0'-4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<13	<45	<13	<45	<59
SW-3	7/28/2022	0'-4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	15	<48	15	15	<60
~~SW-4~~	~~7/28/2022~~	~~0'-4'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<46~~	~~<14~~	~~<46~~	~~650~~
SW-4A	8/16/2022	0'-4'	<0.019	<0.037	<0.037	<0.074	<0.07	<3.7	<15	<49	<15	<49	510
SW-5	7/28/2022	0'-4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<46	<14	<46	100
SW-6	7/28/2022	0'-4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<48	<14	<48	160
SW-7	7/28/2022	0'-4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<46	<14	<46	100
W-1	8/5/2022	0'-6'	<0.023	<0.046	<0.046	<0.091	<0.09	<4.6	<15	<49	<15	<49	560
~~W-2~~	~~8/5/2022~~	~~0'-8'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~2,200~~
~~W-2/A~~	~~8/25/2022~~	~~0'-8'~~	~~<0.022~~	~~<0.043~~	~~<0.043~~	~~<0.087~~	~~<0.09~~	~~<4.3~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~900~~
W-2B	11/25/2024	0-8'	<0.024	<0.048	<0.048	<0.095	<0.01	<4.8	<9.5	<47	<9.5	<47	350
W-3	8/5/2022	0'-8'	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~2,300~~
W-3A	8/25/2022	0'-6'	<0.023	<0.045	<0.045	<0.090	<0.09	<4.5	<14	<47	<14	<47	310
W-4	8/5/2022	0'-9'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<49	<15	<49	510
W-5	8/5/2022	4'-8'	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~900~~
W-5/A	8/16/2022	4'-8'	<0.019	<0.037	<0.037	<0.074	<0.07	<3.7	<15	<50	<15	<50	460
W-6	8/5/2022	0'-8'	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~1,100~~
W-6A	8/16/2022	0'-8'	<0.018	<0.036	<0.036	<0.072	<0.07	<3.6	<15	<49	<15	<49	580
W-7	8/5/2022	0'-8'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<48	<14	<48	360
W-8	8/5/2022	0'-8'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<46	<14	<46	420
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW <50')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**---**	**100**	**600**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**10[3]**				**50[3]**					**100[3]**	**600**

Notes:

1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.
2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.
3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of Digital C-141 and the release rule (19.15.29 NMAC) dated December 1, 2023.
4. Strikethrough Indicates that a sample area has been over-excavated.

NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

PIT AREA (EASTERN PIT AREA, PIT "SURFACE" AREA, & WESTERN PIT AREA)
CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
EASTERN PIT AREA CONFIRMIATON SOIL SAMPLES													
Eastern Pit Area Excavation Base Soil Samples													
PBA-1	4/17/2024	12'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<10	<50	<10	<50	180
PBA-2	4/17/2024	12'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.9	<49	<9.9	<49	180
PBA-3	4/17/2024	12'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.2	<46	<9.2	<46	170
PBA-4	4/17/2024	12'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.9	<50	<9.9	<50	300
PBA-5	4/17/2024	12'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.5	<48	<9.5	<48	260
PBA-6	4/17/2024	12'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.9	<50	<9.9	<50	330
PBA-7	4/17/2024	12'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	<8.9	<45	<8.9	<45	300
PBA-8	4/17/2024	12'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<8.9	<44	<8.9	<44	300
PBA-9	4/17/2024	12'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<10	<50	<10	<50	310
PBA-10	4/17/2024	12'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	10	<50	10	10	280
PBA-11	4/17/2024	12'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<9.6	<48	<9.6	<48	300
PBA-12	4/17/2024	12'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.9	<50	<9.9	<50	290
PBA-13	4/17/2024	12'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<8.5	<42	<8.5	<42	300
PBA-14	4/17/2024	12'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.9	<49	<9.9	<49	250
PBA-15	4/17/2024	12'	<0.023	<0.046	<0.046	<0.093	<0.1	<4.6	<9.5	<47	<9.5	<47	220
PBA-16	5/8/2024	14'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.7	<49	<9.7	<49	140
PBA-17	5/8/2024	12'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.4	<47	<9.4	<47	180
PBA-18	5/8/2024	24'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.2	<46	<9.2	<46	150
PBA-19	5/8/2024	23'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.1	<45	<9.1	<45	200
PBA-20	5/8/2024	22'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<8.9	<45	<8.9	<45	180
PBA-21	5/8/2024	18'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.4	<47	<9.4	<47	130
PBA-22	5/8/2024	22'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.6	<48	<9.6	<48	160
PBA-23	5/8/2024	23'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.2	<46	<9.2	<46	150
PBA-24	5/8/2024	24'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.4	<47	<9.4	<47	140
PBA-25	5/8/2024	14'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.7	<49	<9.7	<49	150
PBA-26	5/8/2024	12'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.0	<45	<9.0	<45	180
PBA-27	5/8/2024	12'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.1	<46	<9.1	<46	170
Eastern Pit Area Excavation Wall Soil Samples													
PWA-1	4/17/2024	3'-12'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.4	<47	<9.4	<47	290
PWA-2	4/17/2024	3'-12'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<10	<50	<10	<50	340
PWA-3	4/17/2024	3'-12'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.7	<48	<9.7	<48	300
PWA-4	4/17/2024	3'-12'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.7	<49	<9.7	<49	310
PWA-5	4/17/2024	3'-12'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.5	<47	<9.5	<47	310
PWA-6	4/17/2024	3'-12'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.8	<49	<9.8	<49	250
PWA-7	4/17/2024	3'-12'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.8	<49	<9.8	<49	270
PWA-8	4/17/2024	3'-12'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.8	<49	<9.8	<49	250
PWA-9	4/17/2024	3'-12'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.8	<49	<9.8	<49	320
PWA-10	4/17/2024	3'-12'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.4	<47	<9.4	<47	410
PWA-11	5/8/2024	12'-24'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.6	<48	<9.6	<48	150
PWA-12	5/8/2024	12'-24'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	<9.3	<46	<9.3	<46	100
PWA-13	5/8/2024	13'-24'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.8	<49	<9.8	<49	180
PWA-14	5/8/2024	12'-24'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<8.8	<44	<8.8	<44	180
PWA-15	5/8/2024	12'-14'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.5	<47	<9.5	<47	160
PWA-16	5/8/2024	12'-23'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<8.6	<43	<8.6	<43	190
PWA-17	5/8/2024	14'-23'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<8.6	<43	<8.6	<43	130
PWA-18	5/8/2024	12'-22'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.5	<47	<9.5	<47	120
PWA-19	5/8/2024	12'-18'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<8.5	<42	<8.5	<42	100
PWA-20	5/8/2024	12'-22'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.6	<48	<9.6	<48	160
PWA-21	5/8/2024	18'-23'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.8	<49	<9.8	<49	190
PWA-22	5/8/2024	12'-22'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.5	<47	<9.5	<47	200
PWA-23	5/8/2024	12'-23'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.8	<49	<9.8	<49	190
PWA-24	5/8/2024	12'-24'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.0	<45	<9.0	<45	170
PWA-25	5/8/2024	12'-24'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.7	<49	<9.7	<49	210
PWA-26	5/8/2024	14'-24'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.6	<48	<9.6	<48	230

PIT AREA (EASTERN PIT AREA, PIT "SURFACE" AREA, & WESTERN PIT AREA)
CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
PIT "SURFACE" CONFIRMATION SOIL SAMPLES													
PIT "SURFACE" AREA EXCAVATION BASE SOIL SAMPLES													
PS-1	5/16/2024	4'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.7	<49	<9.7	<49	70
PS-2	5/16/2024	4'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<8.6	<43	<8.6	<43	140
PS-3	5/16/2024	4'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.3	<46	<9.3	<46	96
PS-4	5/16/2024	4'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.4	<47	<9.4	<47	290
PS-5	5/16/2024	4'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.0	<45	<9.0	<45	95
PS-6	5/16/2024	4'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.3	<47	<9.3	<47	83
PS-7	5/16/2024	4'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.3	<46	<9.3	<46	82
PS-8	5/16/2024	4'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.4	<47	<9.4	<47	130
PS-9	5/16/2024	4'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<10	<50	<10	<50	100
PS-10	5/16/2024	4'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.5	<48	<9.5	<48	120
PS-11	5/16/2024	4'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.5	<48	<9.5	<48	350
PS-12	5/16/2024	4'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.6	<48	<9.6	<48	95
PS-13	5/16/2024	4'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.1	<45	<9.1	<45	140
PS-14	5/16/2024	4'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.9	<50	<9.9	<50	95
PS-15	5/16/2024	4'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.0	<45	<9.0	<45	450
PS-16	5/16/2024	0-4'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.7	<49	<9.7	<49	240
~~PS-17~~	~~5/16/2024~~	~~4'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.1~~	~~<5.0~~	~~<9.2~~	~~<46~~	~~<9.2~~	~~<46~~	~~740~~
~~PS-17A~~	~~7/12/2024~~	~~5'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<8.9~~	~~<44~~	~~<8.9~~	~~<44~~	~~240~~
PS-17A	8/6/2024	5'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.6	<48	<9.6	<48	270
PS-18	5/16/2024	4'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.1	<46	<9.1	<46	240
PS-19	5/16/2024	4'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.1	<46	<9.1	<46	210
PS-20	5/16/2024	4'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<8.8	<44	<8.8	<44	69
PS-21	5/16/2024	4'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<8.8	<44	<8.8	<44	<60
PS-22	5/16/2024	0-4'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.4	<47	<9.4	<47	100
PS-23	5/16/2024	0-4'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	24	<47	24	24	<60
PS-24	5/16/2024	4'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<8.9	<44	<8.9	<44	<60
PS-25	5/16/2024	4'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.7	<48	<9.7	<48	<59
PS-26	5/16/2024	4'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.1	<45	<9.1	<45	180
PS-27	5/16/2024	4'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.2	<46	<9.2	<46	<60
PS-28	5/16/2024	4'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<8.9	<45	<8.9	<45	180
PS-29	5/16/2024	4'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.3	<47	<9.3	<47	<60
PS-30	5/16/2024	4'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.6	<48	<9.6	<48	<60
PS-31	5/16/2024	4'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.6	<48	<9.6	<48	<60
PS-32	5/16/2024	4'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.8	<49	<9.8	<49	<61
PS-33	5/16/2024	4'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.8	<49	<9.8	<49	<59
PS-34	5/16/2024	4'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.5	<47	<9.5	<47	<60
PS-35	5/16/2024	4'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<8.8	<44	<8.8	<44	64
PS-36	5/16/2024	4'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.0	<45	<9.0	<45	68
PS-37	5/16/2024	4'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.2	<46	<9.2	<46	120
PS-38	5/16/2024	4'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.4	<47	<9.4	<47	110
PS-39	5/16/2024	4'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.9	<49	<9.9	<49	<60
PS-40	5/16/2024	4'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<9.2	<46	<9.2	<46	150
~~PS-41~~	~~8/2/2024~~	~~4'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.1~~	~~<5.0~~	~~<9.4~~	~~<47~~	~~<9.4~~	~~<47~~	~~850~~
PS-41A	8/29/2024	5'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.6	<48	<9.6	<48	280
PS-42	8/2/2024	4'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.5	<47	<9.5	<47	290
PS-43	8/2/2024	4'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.8	<49	<9.8	<49	520
PS-44	8/2/2024	4'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.3	<47	<9.3	<47	520
PS-45	8/2/2024	4'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.5	<48	<9.5	<48	490
~~PS-46~~	~~8/2/2024~~	~~4'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~<9.9~~	~~<49~~	~~<9.9~~	~~<49~~	~~680~~
PS-46A	8/29/2024	5'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.8	<49	<9.8	<49	<60
PS-47	8/2/2024	4'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.4	<47	<9.4	<47	340
~~PS-48~~	~~8/2/2024~~	~~4'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.1~~	~~<4.9~~	~~<9.8~~	~~<49~~	~~<9.8~~	~~<49~~	~~660~~
PS-48A	8/29/2024	5'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.5	<48	<9.5	<48	310
~~PS-49~~	~~8/2/2024~~	~~4'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.1~~	~~<5.0~~	~~<9.0~~	~~<45~~	~~<9.0~~	~~<45~~	~~1,200~~
PS-49A	8/29/2024	5'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.8	<49	<9.8	<49	370
~~PS-50~~	~~8/2/2024~~	~~4'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.1~~	~~<5.0~~	~~<9.5~~	~~<47~~	~~<9.5~~	~~<47~~	~~630~~
PS-50A	8/29/2024	5'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.9	<50	<9.9	<50	540
~~PS-51~~	~~8/2/2024~~	~~4'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<9.9~~	~~<49~~	~~<9.9~~	~~<49~~	~~1,300~~
PS-51A	8/29/2024	5'	<0.023	<0.046	<0.046	<0.093	<0.1	<4.6	<9.8	<49	<9.8	<49	230
PS-52	8/2/2024	4'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.7	<48	<9.7	<48	360
PS-53	8/2/2024	4'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.1	<46	<9.1	<46	420
PS-54A	8/29/2024	5'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<10	<50	<10	<50	600
~~PS-55~~	~~8/13/2024~~	~~4'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.1~~	~~<4.9~~	~~<9.9~~	~~<49~~	~~<9.9~~	~~<49~~	~~1,300~~
PS-55A	8/29/2024	5'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	12	<49	12	12	450
PS-56	8/13/2024	4'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<9.7	<49	<9.7	<49	420
PS-57	8/13/2024	4'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.7	<49	<9.7	<49	290
~~PS-58~~	~~8/13/2024~~	~~4'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.1~~	~~<5.0~~	~~<9.6~~	~~<48~~	~~<9.6~~	~~<48~~	~~1,100~~

PIT AREA (EASTERN PIT AREA, PIT "SURFACE" AREA, & WESTERN PIT AREA)
CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
PS-58A	8/29/2024	5'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.2	<46	<9.2	<46	520
~~PS-59~~	~~8/13/2024~~	~~4'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.1~~	~~<4.8~~	~~<9.7~~	~~<47~~	~~<9.7~~	~~<47~~	~~690~~
PS-59A	8/29/2024	5'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.7	<48	<9.7	<48	210
~~PS-60~~	~~9/17/2024~~	~~4'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.1~~	~~<4.9~~	~~<9.9~~	~~<49~~	~~<9.9~~	~~<49~~	~~1,800~~
PS-60A	10/17/2024	5'	<0.023	<0.046	<0.046	<0.093	<0.1	<4.6	<9.1	<45	<9.1	<45	85
PS-61	9/17/2024	4'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	<9.5	<47	<9.5	<47	200
PS-62	9/17/2024	4'	<0.023	<0.047	<0.047	<0.093	<0.1	<4.7	<9.9	<49	<9.9	<49	200
PS-63	9/17/2024	4'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.7	<48	<9.7	<48	130
PS-64	9/17/2024	4'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.3	<46	<9.3	<46	160
PS-65	9/17/2024	4'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.7	<49	<9.7	<49	68
PS-66	9/17/2024	4'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.9	<49	<9.9	<49	290
~~PS-67~~	~~9/17/2024~~	~~4'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<9.5~~	~~<48~~	~~<9.5~~	~~<48~~	~~5,200~~
PS-67A	10/3/2024	5'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.9	<49	<9.9	<49	170
~~PS-68~~	~~9/17/2024~~	~~4'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~<9.7~~	~~<49~~	~~<9.7~~	~~<49~~	~~6,300~~
PS-68A	10/3/2024	5'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.8	<49	<9.8	<49	200
~~PS-69~~	~~9/17/2024~~	~~4'~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.092~~	~~<0.1~~	~~<4.6~~	~~<9.7~~	~~<48~~	~~<9.7~~	~~<48~~	~~1,800~~
PS-69A	10/3/2024	5'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.4	<47	<9.4	<47	200
PS-70	9/17/2024	4'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.3	<47	<9.3	<47	400
PS-71	9/17/2024	4'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.9	<49	<9.9	<49	300
PS-72	9/17/2024	4'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	<9.7	<49	<9.7	<49	150
~~PS-73~~	~~10/3/2024~~	~~0-4'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.1~~	~~<5.0~~	~~<9.8~~	~~<49~~	~~<9.8~~	~~<49~~	~~1,200~~
PS-73A	10/17/2024	0-5'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.7	<48	<9.7	<48	72
~~PS-74~~	~~10/3/2024~~	~~0-4'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.1~~	~~<4.9~~	~~<9.5~~	~~<47~~	~~<9.5~~	~~<47~~	~~1,500~~
PS-74A	10/17/2024	0-5'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.9	<49	<9.9	<49	86
~~PS-75~~	~~10/3/2024~~	~~4'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~<9.6~~	~~<48~~	~~<9.6~~	~~<48~~	~~1,300~~
PS-75A	10/17/2024	5'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.8	<49	<9.8	<49	210
PS-76	10/8/2024	4'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.4	<47	<9.4	<47	110
PS-77	10/8/2024	4'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<8.6	<43	<8.6	<43	110
PS-78	10/8/2024	4'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.0	<45	<9.0	<45	160
PS-79	10/8/2024	4'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.0	<45	<9.0	<45	140
PS-80	10/8/2024	4'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<8.8	<44	<8.8	<44	120
PS-81	10/8/2024	4'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.6	<48	<9.6	<48	150
PS-82	10/8/2024	4'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<8.7	<44	<8.7	<44	130
PS-83	10/8/2024	4'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.6	<48	<9.6	<48	190
PS-84	10/8/2024	4'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<8.6	<43	<8.6	<43	120
PS-85	10/8/2024	4'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.0	<45	<9.0	<45	180
PS-86	10/8/2024	4'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.8	<49	<9.8	<49	99
PS-87	10/8/2024	4'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.5	<47	<9.5	<47	100
PS-88	10/8/2024	4'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<9.1	<45	<9.1	<45	310
PS-89	10/8/2024	4'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.4	<47	<9.4	<47	99
PS-90	10/8/2024	4'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.4	<47	<9.4	<47	94
PS-91	10/8/2024	4'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.1	<46	<9.1	<46	<60
PS-92	10/8/2024	4'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.1	<45	<9.1	<45	96
PS-93	10/8/2024	4'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.7	<49	<9.7	<49	150
PS-94	10/8/2024	4'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<8.4	<42	<8.4	<42	69
PS-95	10/8/2024	4'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.1	<46	<9.1	<46	220
PIT "SURFACE" AREA EXCAVATION WALL SOIL SAMPLES													
P2-W22	8/2/2024	0'-4'	<0.023	<0.046	<0.046	<0.093	<0.1	<4.6	<9.1	<46	<9.1	<4.6	480
P2-W23	8/2/2024	0'-4'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.5	<47	<9.5	<47	530
P2-W24	8/2/2024	0'-4'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	<9.4	<47	<9.4	<47	490
P2-W25	8/2/2024	0'-4'	<0.023	<0.047	<0.047	<0.093	<0.1	<4.7	<9.9	<50	<9.9	<50	470
P2-W26	8/2/2024	0'-4'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.6	<48	<9.6	<48	540
P2-W27	8/2/2024	0'-4'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<10	<50	<10	<50	520
~~P2-W28~~	~~8/2/2024~~	~~0'-4'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.1~~	~~<5.0~~	~~<9.5~~	~~<47~~	~~<9.5~~	~~<47~~	~~1,000~~
~~P2-W28A~~	~~9/17/2024~~	~~0'-4'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<9.4~~	~~<47~~	~~<9.4~~	~~<47~~	~~2,700~~
~~P2-W28B~~	~~10/3/2024~~	~~0-4'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.1~~	~~<5.0~~	~~<9.7~~	~~<49~~	~~<9.7~~	~~<49~~	~~1,800~~
P2-W28C	10/17/2024	0-4'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.0	<45	<9.0	<45	140
P2-W29	8/2/2024	0'-4'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.6	<48	<9.6	<48	420
P2-W30	8/2/2024	0'-4'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.9	<49	<9.9	<49	500
NPW-1	5/24/2024	6'-11'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.7	<48	<9.7	<48	210
NPW-2	5/24/2024	6'-11'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.0	<45	<9.0	<45	210
NPW-3	5/24/2024	0'- 6'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<8.9	<45	<8.9	<45	210
NPW-4	5/24/2024	0'-10'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.6	<48	<9.6	<48	220
NPW-5	5/24/2024	6'-10'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<8.8	<44	<8.8	<44	200
NPW-6	5/24/2024	6'-10'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<8.5	<43	<8.5	<43	230
NPW-7	5/24/2024	0'- 6'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<8.7	<43	<8.7	<43	250
NPW-8	5/24/2024	0'-8'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.9	<49	<9.9	<49	230

PIT AREA (EASTERN PIT AREA, PIT "SURFACE" AREA, & WESTERN PIT AREA)
CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
WESTERN PIT AREA CONFIRMATION SOIL SAMPLES													
Western Pit Area Base Samples													
~~P2-B1~~	~~8/2/2024~~	~~13'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.1~~	~~<4.9~~	~~<8.5~~	~~<42~~	~~<8.5~~	~~<42~~	~~1,400~~
P2-B-1A	8/29/2024	13.5'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.5	<47	<9.5	<47	470
P2-B2	8/13/2024	11'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.3	<46	<9.3	<46	380
~~P2-B3~~	~~8/13/2024~~	~~11'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<9.4~~	~~<47~~	~~<9.4~~	~~<47~~	~~1,100~~
P2-B3A	11/12/2024	19'	<0.017	<0.035	<0.035	<0.069	<0.1	<3.5	<9.3	<47	<9.3	<47	61
~~P2-B4~~	~~8/13/2024~~	~~11'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<9.9~~	~~<49~~	~~<9.9~~	~~<49~~	~~1,400~~
P2-B4A	11/12/2024	19'	<0.020	<0.040	<0.040	<0.079	<0.1	<4.0	<9.7	<48	<9.7	<48	300
P2-B5	8/2/2024	11'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.6	<48	<9.6	<48	280
~~P2-B6~~	~~8/2/2024~~	~~11'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~<9.9~~	~~<50~~	~~<9.9~~	~~<50~~	~~630~~
P2-B-6A	8/29/2024	13'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<10	<50	<10	<50	210
P2-B7	8/2/2024	11'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.7	<48	<9.7	<48	420
P2-B8	7/12/2024	10'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.1	<45	<9.1	<45	100
P2-B9	7/12/2024	10'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	10	<49	10	10	170
P2-B10	7/12/2024	10'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.7	<48	<9.7	<48	150
P2-B11	7/12/2024	10'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.9	<49	<9.9	<49	210
P2-B12	7/12/2024	10'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<8.7	<44	<8.7	<44	170
P2-B-13	8/29/2024	13'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.8	<49	<9.8	<49	200
~~P2-B14~~	~~8/2/2024~~	~~13'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.1~~	~~<4.8~~	~~<9.6~~	~~<48~~	~~<9.6~~	~~<48~~	~~990~~
P2-B-14A	8/29/2024	13.5'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.5	<47	<9.5	<47	480
P2-B15	8/2/2024	11'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.9	<49	<9.9	<49	290
P2-B16	8/2/2024	11'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.7	<48	<9.7	<48	330
P2-B17	7/12/2024	10'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.7	<49	<9.7	<49	130
P2-B18	8/2/2024	11'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.4	<47	<9.4	<47	520
P2-B19	8/2/2024	13'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.3	<47	<9.3	<47	280
P2-B20	8/13/2024	13'	<0.0023	<0.046	<0.046	<0.093	<0.1	<4.6	19	<47	19	19	130
P2-B21	8/2/2024	11'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.9	<50	<9.9	<50	460
P2-B22	7/12/2024	10'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.9	<49	<9.9	<49	280
~~P2-B23~~	~~8/13/2024~~	~~17'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.1~~	~~<5.0~~	~~<9.4~~	~~<47~~	~~<9.4~~	~~<47~~	~~1,100~~
P2-B-23A	8/29/2024	20'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.5	<47	<9.5	<47	250
P2-B24	7/12/2024	10'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.8	<43	<9.8	<9.8	69
P2-B25	8/2/2024	11'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.7	<49	<9.7	<49	460
P2-B26	8/2/2024	13'	<0.023	<0.047	<0.047	<0.093	<0.1	<4.7	<8.4	<42	<8.4	<42	510
P2-B27	7/12/2024	10'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.8	<49	<9.8	<49	370
P2-B28	7/12/2024	10'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<8.6	<43	<8.6	<43	280
~~P2-B29~~	~~8/13/2024~~	~~13'~~	~~<0.023~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.5~~	~~<47~~	~~<9.5~~	~~<47~~	~~320~~
P2-B-29A	8/29/2024	15'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.3	<46	<9.3	<46	190
~~P2-B30~~	~~8/2/2024~~	~~11'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.5~~	~~<48~~	~~<9.5~~	~~<48~~	~~1,200~~
P2-B-30A	8/29/2024	17'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.8	<49	<9.8	<49	430
P2-B31	7/12/2024	10'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	<9.3	<46	<9.3	<46	270
P2-B32	8/13/2024	13'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.0	<45	<9.0	<45	370
~~P2-B33~~	~~8/2/2024~~	~~11'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.1~~	~~<4.8~~	~~<9.7~~	~~<49~~	~~<9.7~~	~~<49~~	~~1,300~~
P2-B-33A	8/29/2024	15'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.4	<47	<9.4	<47	500
~~P2-B34~~	~~8/2/2024~~	~~13'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~<9.5~~	~~<47~~	~~<9.5~~	~~<47~~	~~1,500~~
P2-B-34A	8/29/2024	15'	<0.023	<0.046	<0.046	<0.093	<0.1	<4.6	<9.6	<48	<9.6	<48	290
P2-B35	8/13/2024	19'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	<9.4	<47	<9.4	<47	340
~~P2-B36~~	~~8/2/2024~~	~~17'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.095~~	~~<0.1~~	~~<4.8~~	~~<9.7~~	~~<48~~	~~<9.7~~	~~<48~~	~~1,400~~
P2-B-36A	8/29/2024	15'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.7	<48	<9.7	<48	270
~~P2-B37~~	~~8/13/2024~~	~~19'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.1~~	~~<4.9~~	~~<9.9~~	~~<50~~	~~<9.9~~	~~<50~~	~~1,100~~
P2-B-37A	8/29/2024	20'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.2	<46	<9.2	<46	190
P2-B38	8/2/2024	15'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.5	<48	<9.5	<48	480
~~P2-B39~~	~~8/13/2024~~	~~19'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.095~~	~~<0.1~~	~~<4.7~~	~~<9.4~~	~~<47~~	~~<9.4~~	~~<47~~	~~650~~
P2-B-39A	8/29/2024	20'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.4	<47	<9.4	<47	200
~~P2-B40~~	~~8/13/2024~~	~~19'~~	~~<0.023~~	~~<0.047~~	~~<0.047~~	~~<0.093~~	~~<0.1~~	~~<4.7~~	~~170~~	~~210~~	~~170~~	~~380~~	~~430~~
P2-B-40A	8/29/2024	20'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.1	<45	<9.1	<45	190
~~P2-B41~~	~~8/2/2024~~	~~15'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.1~~	~~<4.9~~	~~<9.8~~	~~<49~~	~~<9.8~~	~~<49~~	~~970~~
P2-B-41A	8/29/2024	20'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.9	<49	<9.9	<49	220
P2-B42	8/2/2024	15'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.9	<50	<9.9	<50	330
~~P2-B43~~	~~8/2/2024~~	~~13'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.1~~	~~<5.0~~	~~<9.9~~	~~<50~~	~~<9.9~~	~~<50~~	~~1,400~~
P2-B-43A	8/29/2024	20'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.3	<47	<9.3	<47	200
P2-B44	8/13/2024	19'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.2	<46	<9.2	<46	180
P2-B45	8/13/2024	19'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.3	<47	<9.3	<47	560
~~P2-B46~~	~~8/13/2024~~	~~19'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.1~~	~~<4.9~~	~~<10~~	~~<50~~	~~<10~~	~~<50~~	~~1,100~~
P2-B-46A	8/29/2024	17'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.2	<46	<9.2	<46	210
~~P2-B47~~	~~8/2/2024~~	~~13'~~	~~<0.023~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.2~~	~~<46~~	~~<9.2~~	~~<46~~	~~1,500~~
P2-B-47A	8/29/2024	17'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.7	<48	<9.7	<48	240
P2-B48	8/13/2024	19'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.6	<48	<9.6	<48	450

PIT AREA (EASTERN PIT AREA, PIT "SURFACE" AREA, & WESTERN PIT AREA)
CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
P2-B49	8/13/2024	19'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.6	<48	<9.6	<48	150
~~P2-B50~~	~~8/2/2024~~	~~13'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.1~~	~~<5.0~~	~~<9.2~~	~~<46~~	~~<9.2~~	~~<46~~	~~1,200~~
P2-B-50A	8/29/2024	20'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.8	<49	<9.8	<49	240
~~P2-B51~~	~~8/2/2024~~	~~13'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<9.8~~	~~<49~~	~~<9.8~~	~~<49~~	~~1,900~~
P2-B-51A	8/29/2024	20'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.3	<47	<9.3	<47	190
~~P2-B52~~	~~8/2/2024~~	~~13'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.1~~	~~<4.8~~	~~<9.5~~	~~<47~~	~~<9.5~~	~~<47~~	~~1,400~~
P2-B-52A	8/29/2024	17'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.4	<47	<9.4	<47	250
~~P2-B53~~	~~8/2/2024~~	~~11'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.1~~	~~<5.0~~	~~<9.5~~	~~<48~~	~~<9.5~~	~~<48~~	~~1,200~~
P2-B-53A	8/29/2024	20'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.4	<47	<9.4	<47	450
P2-B54	8/2/2024	11'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.8	<49	<9.8	<49	550
P2-B55	8/2/2024	11'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.7	<48	<9.7	<48	490
P2-B56	11/12/2024	19'	<0.021	<0.042	<0.042	<0.084	<0.1	<4.2	<9.6	<48	<9.6	<48	300
PS-R1	11/12/2024	4'-19'	<0.021	<0.041	<0.041	<0.082	<0.1	<4.1	<9.6	<48	<9.6	<48	270
Western Pit Excavation Sidewall Samples													
P2-W1	7/12/2024	4'-10'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.9	<49	<9.9	<49	160
P2-W2	7/12/2024	4'-10'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	11	<48	11	11	220
P2-W3	7/12/2024	4'-10'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	11	<49	11	11	110
P2-W4	7/12/2024	4'-10'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	17	<47	17	17	85
P2-W5	7/12/2024	4'-10'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<8.9	<45	<8.9	<45	280
P2-W6	7/12/2024	4'-10'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.8	<49	<9.8	<49	170
P2-W7	7/12/2024	0'-10'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.6	<48	<9.6	<48	220
P2-W8	7/12/2024	0'-10'	<0.023	<0.047	<0.047	<0.093	<0.1	<4.7	<9.7	<49	<9.7	<49	110
P2-W9	7/12/2024	0'-10'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.2	<46	<9.2	<46	200
P2-W10	7/12/2024	4'-10'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	11	<49	11	11	160
P2-W11	7/12/2024	4'-10'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	10	<49	10	10	340
P2-W12	7/12/2024	4'-10'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.3	<46	<9.3	<46	140
P2-W13	7/12/2024	4'-10'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.8	<49	<9.8	<49	360
P2-W14	7/12/2024	4'-10'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.9	<50	<9.9	<50	190
P2-W15	7/12/2024	4'-10'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.5	<48	<9.5	<48	280
P2-W16	7/12/2024	4'-10'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.5	<48	<9.5	<48	120
P2-W17	7/12/2024	4'-10'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	10	<46	10	10	95
P2-W18	7/12/2024	4'-10'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	11	<47	11	11	130
P2-W19	7/12/2024	4'-10'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.8	<49	<9.8	<49	180
P2-W20	7/12/2024	4'-10'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.5	<47	<9.5	<47	140
P2-W21	7/12/2024	4'-10'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	22	<46	22	22	110
PS-W31	9/17/2024	10'-20'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.9	<49	<9.9	<49	140
P2-W32	9/17/2024	10'-13'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.6	<48	<9.6	<48	120
P2-W33	9/17/2024	10'-20'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.8	<49	<9.8	<49	160
P2-W34	9/17/2024	10'-20'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.9	<50	<9.9	<50	310
~~P2-W35~~	~~9/17/2024~~	~~10'-13'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<9.9~~	~~<50~~	~~<9.9~~	~~<50~~	~~770~~
P2-W35A	10/3/2024	10-13'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.9	<50	<9.9	<50	160
P2-W36	9/17/2024	10'-20'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.9	<50	<9.9	<50	430
P2-W37	11/12/2024	10-17'	<0.019	<0.039	<0.039	<0.077	<0.1	<3.9	<9.5	<48	<9.5	<48	300
P2-W38	11/12/2024	4-19'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<9.9	<49	<9.9	<49	180
P2-W39	11/12/2024	4-19'	<0.021	<0.041	<0.041	<0.082	<0.1	<4.1	<9.2	<46	<9.2	<46	390
P2-W40	11/12/2024	4-19'	<0.022	<0.043	<0.043	<0.087	<0.1	<4.3	<9.7	<48	<9.7	<48	<61
P2-W41	11/12/2024	10-13'	<0.019	<0.038	<0.038	<0.076	<0.1	<3.8	<9.8	<49	<9.8	<49	<60
Western Pit Excavation Interior Excavation Wall Samples													
P2-IW1	9/17/2024	10-13'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<10	<50	<10	<50	120
P2-IW2	9/17/2024	10-13'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.9	<50	<9.9	<50	310
~~P2-IW2.2~~	~~9/17/2024~~	~~10-13'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.1~~	~~<4.8~~	~~<9.6~~	~~<48~~	~~<9.6~~	~~<48~~	~~3,700~~
~~P2-IW2.2A~~	~~10/3/2024~~	~~10-13'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.1~~	~~<5.0~~	~~<9.4~~	~~<47~~	~~<9.4~~	~~<47~~	~~1,200~~
P2-IW2.2B	10/17/2024	10'-13'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.7	<49	<9.7	<49	270
P2-IW3	9/17/2024	10-15'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<9.6	<48	<9.6	<48	210
P2-IW4	9/17/2024	10-19'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.8	<49	<9.8	<49	330
P2-IW5	9/17/2024	11-19'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.6	<48	<9.6	<48	110
P2-IW6	9/17/2024	10-15'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.7	<48	<9.7	<48	110
~~P2-IW6.6~~	~~9/17/2024~~	~~10-15'~~	~~<0.023~~	~~<0.047~~	~~<0.047~~	~~<0.093~~	~~<0.1~~	~~<4.7~~	~~<9.1~~	~~<46~~	~~<9.1~~	~~<46~~	~~9,200~~
~~P2-IW6.6A~~	~~10/3/2024~~	~~10-15'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.1~~	~~<4.9~~	~~<9.7~~	~~<48~~	~~<9.7~~	~~<48~~	~~7,500~~
P2-IW6.6C	10/17/2024	10'-15'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.7	<48	<9.7	<48	290
P2-IW7	9/17/2024	10-20'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.6	<48	<9.6	<48	190
~~P2-IW8~~	~~9/17/2024~~	~~11-20'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<9.3~~	~~<46~~	~~<9.3~~	~~<46~~	~~1,800~~
~~P2-IW8A~~	~~10/3/2024~~	~~11-20'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.1~~	~~<4.8~~	~~<9.7~~	~~<49~~	~~<9.7~~	~~<49~~	~~2,000~~
P2-IW8B	10/17/2024	11'-20'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.6	<48	<9.6	<48	240
P2-IW9	9/17/2024	10-20'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.9	<49	<9.9	<49	170
~~P2-IW10~~	~~9/17/2024~~	~~11-20'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~<9.7~~	~~<48~~	~~<9.7~~	~~<48~~	~~2,100~~
~~P2-IW10A~~	~~10/3/2024~~	~~11-20'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.1~~	~~<5.0~~	~~<9.3~~	~~<46~~	~~<9.3~~	~~<46~~	~~7,600~~

PIT AREA (EASTERN PIT AREA, PIT "SURFACE" AREA, & WESTERN PIT AREA)
CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
P2-IW10B	10/17/2024	11'-20'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.9	<49	<9.9	<49	370
~~P2-IW11~~	~~9/17/2024~~	~~11-13'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.1~~	~~<4.8~~	~~<9.6~~	~~<48~~	~~<9.6~~	~~<48~~	**~~2,300~~**
P2-IW11A	10/3/2024	11-13.5'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.3	<46	<9.3	<46	570
~~P2-IW12~~	~~9/17/2024~~	~~13-20'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<9.7~~	~~<49~~	~~<9.7~~	~~<49~~	**~~2,100~~**
~~P2-IW12A~~	~~10/3/2024~~	~~13-20'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.1~~	~~<5.0~~	~~<10~~	~~<50~~	~~<10~~	~~<50~~	**~~7,400~~**
P2-IW12B	10/17/2024	13-20'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.5	<48	<9.5	<48	200
P2-IW13	9/17/2024	10-20'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.5	<48	<9.5	<48	160
P2-IW14	9/17/2024	10-20'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.6	<48	<9.6	<48	190
P2-IW15	9/17/2024	10-20'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.4	<47	<9.4	<47	280
P2-IW16	9/17/2024	10-20'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.5	<48	<9.5	<48	470
~~P2-IW17~~	~~9/17/2024~~	~~15-20'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~<9.5~~	~~<47~~	~~<9.5~~	~~<47~~	**~~680~~**
~~P2-IW17A~~	~~10/3/2024~~	~~15-20'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.1~~	~~<4.9~~	~~<9.3~~	~~<46~~	~~<9.3~~	~~<46~~	**~~7,000~~**
P2-IW17B	10/17/2024	15-20'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.7	<48	<9.7	<48	230
P2-IW18	9/17/2024	13-20'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.9	<50	<9.9	<50	460
P2-IW19	11/12/2024	13-17'	<0.018	<0.036	<0.036	<0.072	<0.1	<3.6	<9.4	<47	<9.4	<47	260
P2-IW20	11/12/2024	11-19'	<0.020	<0.041	<0.041	<0.081	<0.1	<4.1	<9.1	<46	<9.1	<46	<60
P2-IW21	11/12/2024	17-19'	<0.019	<0.039	<0.039	<0.078	<0.1	<3.9	<9.9	<49	<9.9	<49	180
P2-IW22	11/12/2024	11-17'	<0.017	<0.035	<0.035	<0.070	<0.1	<3.5	<10	<50	<10	<50	200
P2-IW23	11/12/2024	17-20'	<0.020	<0.040	<0.040	<0.080	<0.1	<4.0	<9.4	<47	<9.4	<47	320
P2-IW24	11/12/2024	11-20'	<0.016	<0.033	<0.033	<0.066	<0.1	<3.3	<9.5	<47	<9.5	<47	<60
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW <50')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**---**	**100**	**600**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**10^3**				**50^3**					**100^3**	**600**

Notes:

1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.
2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.
3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of Digital C-141 and the release rule (19.15.29 NMAC) dated December 1, 2023.
4. Strikethrough Indicates that a sample area has been over-excavated.

ATTACHMENT 1 – PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPH NO. 1 – A general view of the Eastern Off-Pad Area during over-excavation in March 2024. The view is towards the southwest.



PHOTOGRAPH NO. 2 – A view of the Eastern Off-Pad Area upon completion. The view is towards the southeast.



PHOTOGRAPH NO. 3 – An additional view of the Eastern Off-Pad area upon completion. The view is towards the northeast.



PHOTOGRAPH NO. 4 – A view of the Southern Off-Pad Area during remedial efforts in 2022. The view is towards the southwest.

Approximate GPS Coordinates: 32.669889, -104.517154



PHOTOGRAPH NO. 5 – An additional view of the Southern Off-Pad Area. The view is towards the southwest.

Approximate GPS Coordinates: 32.670061, -104.517016



PHOTOGRAPH NO. 6 – A current view of the Southern Off-pad area collected from the excavated Pit "Surface" Area. The view is towards the southwest.



PHOTOGRAPH NO. 7 – A view of the Western Pit Area upon completion. The view is towards the south.



PHOTOGRAPH NO. 8 – An additional view of the Western Pit Area upon completion. The view is towards the northeast.



PHOTOGRAPH NO. 9 – A view of the Pit "Surface" Area during the remediation process. The view is towards the north.



PHOTOGRAPH NO. 10 – A general view of the removal operations in the Pit "Surface" Area and Western Pit Area.



PHOTOGRAPH NO. 11 – A view of the Pit "Surface" Area and Western Pit Areas during remedial efforts.



PHOTOGRAPH NO. 12 – A view of the Wester Pit Area upon completion. The view is to the northwest.



PHOTOGRAPH NO. 13 – An additional view of the Western Pit Area upon completion. The view is towards the north-northwest.



PHOTOGRAPH NO. 14 – A view of the Western Pit Area (center), Pit "Surface" Area (surrounding), and Southern Off-Pad Area (left).

ATTACHMENT 2 – LABORATORY ANALYTICAL RESULTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 02, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2205925

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/20/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2205925**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-4
Project: Roy SWD 3
Collection Date: 5/16/2022 9:36:00 AM
Lab ID: 2205925-001 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	530	60		mg/Kg	20	5/26/2022 1:52:36 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/26/2022 7:18:56 AM	67669
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/26/2022 7:18:56 AM	67669
Surr: DNOP	85.0	51.1-141		%Rec	1	5/26/2022 7:18:56 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 3:58:37 AM	67605
Surr: BFB	90.6	37.7-212		%Rec	1	5/24/2022 3:58:37 AM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/24/2022 3:58:37 AM	67605
Toluene	ND	0.049		mg/Kg	1	5/24/2022 3:58:37 AM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 3:58:37 AM	67605
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2022 3:58:37 AM	67605
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	5/24/2022 3:58:37 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205925**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-5
Project: Roy SWD 3
Collection Date: 5/16/2022 9:42:00 AM
Lab ID: 2205925-002 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	550	60		mg/Kg	20	5/26/2022 2:29:38 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/26/2022 7:42:54 AM	67669
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 7:42:54 AM	67669
Surr: DNOP	89.8	51.1-141		%Rec	1	5/26/2022 7:42:54 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 4:22:12 AM	67605
Surr: BFB	94.4	37.7-212		%Rec	1	5/24/2022 4:22:12 AM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/24/2022 4:22:12 AM	67605
Toluene	ND	0.049		mg/Kg	1	5/24/2022 4:22:12 AM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 4:22:12 AM	67605
Xylenes, Total	ND	0.099		mg/Kg	1	5/24/2022 4:22:12 AM	67605
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	5/24/2022 4:22:12 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205925**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-8
Project: Roy SWD 3
Collection Date: 5/16/2022 9:51:00 AM
Lab ID: 2205925-003 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	210	60		mg/Kg	20	5/26/2022 2:41:58 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/26/2022 8:06:57 AM	67669
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 8:06:57 AM	67669
Surr: DNOP	90.5	51.1-141		%Rec	1	5/26/2022 8:06:57 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 4:45:50 AM	67605
Surr: BFB	93.3	37.7-212		%Rec	1	5/24/2022 4:45:50 AM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 4:45:50 AM	67605
Toluene	ND	0.049		mg/Kg	1	5/24/2022 4:45:50 AM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 4:45:50 AM	67605
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2022 4:45:50 AM	67605
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	5/24/2022 4:45:50 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205925**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-2
Project: Roy SWD 3
Collection Date: 5/16/2022 12:26:00 PM
Lab ID: 2205925-004 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	240	60		mg/Kg	20	5/26/2022 2:54:18 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/26/2022 8:31:00 AM	67669
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/26/2022 8:31:00 AM	67669
Surr: DNOP	70.0	51.1-141		%Rec	1	5/26/2022 8:31:00 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 5:35:00 AM	67605
Surr: BFB	84.6	37.7-212		%Rec	1	5/24/2022 5:35:00 AM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 5:35:00 AM	67605
Toluene	ND	0.049		mg/Kg	1	5/24/2022 5:35:00 AM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 5:35:00 AM	67605
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2022 5:35:00 AM	67605
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	5/24/2022 5:35:00 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205925**

02-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-67699**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67699**	RunNo: **88285**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3131011** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

Sample ID: **MB-67699**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67699**	RunNo: **88285**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3131012** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205925**

02-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-67669**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67669**	RunNo: **88246**
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3131392** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.1	51.1	141			

Sample ID: **LCS-67669**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67669**	RunNo: **88246**
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3131393** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.4	64.4	127			
Surr: DNOP	4.8		5.000		95.9	51.1	141			

Sample ID: **MB-67680**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67680**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/26/2022**	SeqNo: **3132682** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		93.1	51.1	141			

Sample ID: **LCS-67680**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67680**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/26/2022**	SeqNo: **3132685** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.1	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205925**

02-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb-67605**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67605**	RunNo: **88206**
Prep Date: **5/20/2022**	Analysis Date: **5/24/2022**	SeqNo: **3126958** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.8	37.7	212			

Sample ID: **lcs-67605**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67605**	RunNo: **88206**
Prep Date: **5/20/2022**	Analysis Date: **5/23/2022**	SeqNo: **3126959** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	72.3	137			
Surr: BFB	2000		1000		200	37.7	212			

Sample ID: **lcs-67637**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128820** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		202	37.7	212			

Sample ID: **mb-67637**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128821** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		93.2	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205925**

02-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb-67605**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67605**	RunNo: **88206**
Prep Date: **5/20/2022**	Analysis Date: **5/24/2022**	SeqNo: **3127001** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	70	130			

Sample ID: **LCS-67605**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67605**	RunNo: **88206**
Prep Date: **5/20/2022**	Analysis Date: **5/23/2022**	SeqNo: **3127002** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.3	80	120			
Toluene	0.92	0.050	1.000	0	92.3	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.6	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: **lcs-67637**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128876** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	70	130			

Sample ID: **mb-67637**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128877** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2205925 | RcptNo: 1

Received By: Juan Rojas 5/20/2022 7:05:00 AM

Completed By: Juan Rojas 5/20/2022 7:40:04 AM

Reviewed By: SCL 5/20/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JMS 5/20/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good				

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG - Artesia

Mailing Address: ON FILE

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 5-day

Project Name: Roy SWD #3

Project #: 5375

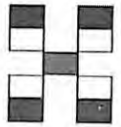
Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.6-0.1=1.5 (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2205925	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride (EPA 300)
5/16/22	0936	Soil	Ex-4	1x 4oz Jar	ICE	-001	X	X									X
"	0942	"	Ex-5	"	"	-002	"	"									"
"	0951	"	Ex-8	"	"	-003	"	"									"
"	1226	"	EW-2	"	"	-004	"	"									"

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/19/22	1215	W. Kennedy			5/19/22	1215
5/19/22	1900			courier	5/20/22	7:00

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 08, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2205D06

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 13 sample(s) on 5/28/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2205D06**
Date Reported: **6/8/2022**

CLIENT: EOG
Client Sample ID: EX-1
Project: Roy SWD 3
Collection Date: 5/25/2022 10:55:00 AM
Lab ID: 2205D06-001 **Matrix:** SOIL **Received Date:** 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	660	60		mg/Kg	20	6/2/2022 7:20:48 PM	67861
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/1/2022 11:13:14 AM	67802
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/1/2022 11:13:14 AM	67802
Surr: DNOP	66.4	51.1-141		%Rec	1	6/1/2022 11:13:14 AM	67802
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2022 11:13:00 AM	67777
Surr: BFB	87.3	37.7-212		%Rec	1	5/31/2022 11:13:00 AM	67777
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	5/31/2022 11:13:00 AM	67777
Toluene	ND	0.049		mg/Kg	1	5/31/2022 11:13:00 AM	67777
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2022 11:13:00 AM	67777
Xylenes, Total	ND	0.098		mg/Kg	1	5/31/2022 11:13:00 AM	67777
Surr: 4-Bromofluorobenzene	87.3	70-130		%Rec	1	5/31/2022 11:13:00 AM	67777

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2205D06**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-2
Project: Roy SWD 3
Collection Date: 5/25/2022 10:57:00 AM
Lab ID: 2205D06-002 **Matrix:** SOIL **Received Date:** 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	750	61		mg/Kg	20	6/2/2022 7:33:12 PM	67861
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/1/2022 11:36:59 AM	67802
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/1/2022 11:36:59 AM	67802
Surr: DNOP	53.5	51.1-141		%Rec	1	6/1/2022 11:36:59 AM	67802
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2022 12:12:00 PM	67777
Surr: BFB	83.7	37.7-212		%Rec	1	5/31/2022 12:12:00 PM	67777
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	5/31/2022 12:12:00 PM	67777
Toluene	ND	0.049		mg/Kg	1	5/31/2022 12:12:00 PM	67777
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2022 12:12:00 PM	67777
Xylenes, Total	ND	0.098		mg/Kg	1	5/31/2022 12:12:00 PM	67777
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	5/31/2022 12:12:00 PM	67777

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205D06**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-3
Project: Roy SWD 3
Collection Date: 5/25/2022 10:59:00 AM
Lab ID: 2205D06-003 **Matrix:** SOIL **Received Date:** 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	590	60		mg/Kg	20	6/2/2022 7:45:37 PM	67861
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/1/2022 12:00:47 PM	67802
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/1/2022 12:00:47 PM	67802
Surr: DNOP	75.9	51.1-141		%Rec	1	6/1/2022 12:00:47 PM	67802
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/31/2022 12:32:00 PM	67777
Surr: BFB	83.1	37.7-212		%Rec	1	5/31/2022 12:32:00 PM	67777
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	5/31/2022 12:32:00 PM	67777
Toluene	ND	0.048		mg/Kg	1	5/31/2022 12:32:00 PM	67777
Ethylbenzene	ND	0.048		mg/Kg	1	5/31/2022 12:32:00 PM	67777
Xylenes, Total	ND	0.096		mg/Kg	1	5/31/2022 12:32:00 PM	67777
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	5/31/2022 12:32:00 PM	67777

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205D06**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-6
Project: Roy SWD 3
Collection Date: 5/25/2022 11:01:00 AM
Lab ID: 2205D06-004 **Matrix:** SOIL **Received Date:** 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	540	60		mg/Kg	20	6/2/2022 7:58:01 PM	67861
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/1/2022 2:00:00 PM	67802
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/1/2022 2:00:00 PM	67802
Surr: DNOP	61.0	51.1-141		%Rec	1	6/1/2022 2:00:00 PM	67802
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2022 12:51:00 PM	67777
Surr: BFB	82.3	37.7-212		%Rec	1	5/31/2022 12:51:00 PM	67777
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	5/31/2022 12:51:00 PM	67777
Toluene	ND	0.049		mg/Kg	1	5/31/2022 12:51:00 PM	67777
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2022 12:51:00 PM	67777
Xylenes, Total	ND	0.099		mg/Kg	1	5/31/2022 12:51:00 PM	67777
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	5/31/2022 12:51:00 PM	67777

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205D06**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-7
Project: Roy SWD 3
Collection Date: 5/25/2022 11:03:00 AM
Lab ID: 2205D06-005 **Matrix:** SOIL **Received Date:** 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	590	61		mg/Kg	20	6/3/2022 10:37:02 AM	67861
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/2/2022 3:07:35 PM	67802
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/2/2022 3:07:35 PM	67802
Surr: DNOP	91.0	51.1-141		%Rec	1	6/2/2022 3:07:35 PM	67802
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/31/2022 1:11:00 PM	67777
Surr: BFB	84.0	37.7-212		%Rec	1	5/31/2022 1:11:00 PM	67777
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	5/31/2022 1:11:00 PM	67777
Toluene	ND	0.048		mg/Kg	1	5/31/2022 1:11:00 PM	67777
Ethylbenzene	ND	0.048		mg/Kg	1	5/31/2022 1:11:00 PM	67777
Xylenes, Total	ND	0.095		mg/Kg	1	5/31/2022 1:11:00 PM	67777
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	5/31/2022 1:11:00 PM	67777

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205D06**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-9
Project: Roy SWD 3
Collection Date: 5/25/2022 11:05:00 AM
Lab ID: 2205D06-006 **Matrix:** SOIL **Received Date:** 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	520	60		mg/Kg	20	6/3/2022 10:49:26 AM	67861
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/7/2022 2:26:31 PM	67802
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/7/2022 2:26:31 PM	67802
Surr: DNOP	76.5	51.1-141		%Rec	1	6/7/2022 2:26:31 PM	67802
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2022 1:30:00 PM	67777
Surr: BFB	85.9	37.7-212		%Rec	1	5/31/2022 1:30:00 PM	67777
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	5/31/2022 1:30:00 PM	67777
Toluene	ND	0.049		mg/Kg	1	5/31/2022 1:30:00 PM	67777
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2022 1:30:00 PM	67777
Xylenes, Total	ND	0.097		mg/Kg	1	5/31/2022 1:30:00 PM	67777
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	5/31/2022 1:30:00 PM	67777

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205D06**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-10
Project: Roy SWD 3
Collection Date: 5/25/2022 11:07:00 AM
Lab ID: 2205D06-007 **Matrix:** SOIL **Received Date:** 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	520	60		mg/Kg	20	6/2/2022 6:46:52 PM	67872
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/1/2022 3:59:04 PM	67802
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/1/2022 3:59:04 PM	67802
Surr: DNOP	60.7	51.1-141		%Rec	1	6/1/2022 3:59:04 PM	67802
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2022 1:50:00 PM	67777
Surr: BFB	87.4	37.7-212		%Rec	1	5/31/2022 1:50:00 PM	67777
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	5/31/2022 1:50:00 PM	67777
Toluene	ND	0.049		mg/Kg	1	5/31/2022 1:50:00 PM	67777
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2022 1:50:00 PM	67777
Xylenes, Total	ND	0.098		mg/Kg	1	5/31/2022 1:50:00 PM	67777
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	1	5/31/2022 1:50:00 PM	67777

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205D06**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-11
Project: Roy SWD 3
Collection Date: 5/25/2022 11:09:00 AM
Lab ID: 2205D06-008 **Matrix:** SOIL **Received Date:** 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	530	59		mg/Kg	20	6/2/2022 7:23:55 PM	67872
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/2/2022 3:31:25 PM	67802
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/2/2022 3:31:25 PM	67802
Surr: DNOP	101	51.1-141		%Rec	1	6/2/2022 3:31:25 PM	67802
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2022 2:10:00 PM	67777
Surr: BFB	86.1	37.7-212		%Rec	1	5/31/2022 2:10:00 PM	67777
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	5/31/2022 2:10:00 PM	67777
Toluene	ND	0.049		mg/Kg	1	5/31/2022 2:10:00 PM	67777
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2022 2:10:00 PM	67777
Xylenes, Total	ND	0.097		mg/Kg	1	5/31/2022 2:10:00 PM	67777
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	5/31/2022 2:10:00 PM	67777

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205D06**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-1
Project: Roy SWD 3
Collection Date: 5/25/2022 11:11:00 AM
Lab ID: 2205D06-009 **Matrix:** SOIL **Received Date:** 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	720	60		mg/Kg	20	6/2/2022 7:36:16 PM	67872
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/2/2022 3:55:20 PM	67802
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/2/2022 3:55:20 PM	67802
Surr: DNOP	90.4	51.1-141		%Rec	1	6/2/2022 3:55:20 PM	67802
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2022 2:30:00 PM	67777
Surr: BFB	85.9	37.7-212		%Rec	1	5/31/2022 2:30:00 PM	67777
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	5/31/2022 2:30:00 PM	67777
Toluene	ND	0.049		mg/Kg	1	5/31/2022 2:30:00 PM	67777
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2022 2:30:00 PM	67777
Xylenes, Total	ND	0.097		mg/Kg	1	5/31/2022 2:30:00 PM	67777
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	5/31/2022 2:30:00 PM	67777

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205D06**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-3
Project: Roy SWD 3
Collection Date: 5/25/2022 11:13:00 AM
Lab ID: 2205D06-010 **Matrix:** SOIL **Received Date:** 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	840	60		mg/Kg	20	6/2/2022 7:48:38 PM	67872
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/2/2022 4:19:07 PM	67802
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/2/2022 4:19:07 PM	67802
Surr: DNOP	100	51.1-141		%Rec	1	6/2/2022 4:19:07 PM	67802
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/31/2022 3:09:00 PM	67777
Surr: BFB	81.8	37.7-212		%Rec	1	5/31/2022 3:09:00 PM	67777
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	5/31/2022 3:09:00 PM	67777
Toluene	ND	0.050		mg/Kg	1	5/31/2022 3:09:00 PM	67777
Ethylbenzene	ND	0.050		mg/Kg	1	5/31/2022 3:09:00 PM	67777
Xylenes, Total	ND	0.10		mg/Kg	1	5/31/2022 3:09:00 PM	67777
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	5/31/2022 3:09:00 PM	67777

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205D06**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-4
Project: Roy SWD 3
Collection Date: 5/25/2022 11:15:00 AM
Lab ID: 2205D06-011 **Matrix:** SOIL **Received Date:** 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	550	59		mg/Kg	20	6/2/2022 8:00:58 PM	67872
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	8.2		mg/Kg	1	6/2/2022 4:42:54 PM	67802
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	6/2/2022 4:42:54 PM	67802
Surr: DNOP	77.7	51.1-141		%Rec	1	6/2/2022 4:42:54 PM	67802
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/31/2022 3:29:00 PM	67777
Surr: BFB	83.1	37.7-212		%Rec	1	5/31/2022 3:29:00 PM	67777
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	5/31/2022 3:29:00 PM	67777
Toluene	ND	0.047		mg/Kg	1	5/31/2022 3:29:00 PM	67777
Ethylbenzene	ND	0.047		mg/Kg	1	5/31/2022 3:29:00 PM	67777
Xylenes, Total	ND	0.094		mg/Kg	1	5/31/2022 3:29:00 PM	67777
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	5/31/2022 3:29:00 PM	67777

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205D06**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-5
Project: Roy SWD 3
Collection Date: 5/25/2022 11:17:00 AM
Lab ID: 2205D06-012 **Matrix:** SOIL **Received Date:** 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	700	61		mg/Kg	20	6/2/2022 8:13:18 PM	67872
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/7/2022 11:25:25 AM	67893
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/7/2022 11:25:25 AM	67893
Surr: DNOP	96.0	51.1-141		%Rec	1	6/7/2022 11:25:25 AM	67893
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/31/2022 3:48:00 PM	67777
Surr: BFB	86.2	37.7-212		%Rec	1	5/31/2022 3:48:00 PM	67777
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	5/31/2022 3:48:00 PM	67777
Toluene	ND	0.047		mg/Kg	1	5/31/2022 3:48:00 PM	67777
Ethylbenzene	ND	0.047		mg/Kg	1	5/31/2022 3:48:00 PM	67777
Xylenes, Total	ND	0.094		mg/Kg	1	5/31/2022 3:48:00 PM	67777
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	5/31/2022 3:48:00 PM	67777

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205D06**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-6
Project: Roy SWD 3
Collection Date: 5/25/2022 11:19:00 AM
Lab ID: 2205D06-013 **Matrix:** SOIL **Received Date:** 5/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	750	60		mg/Kg	20	6/2/2022 8:25:39 PM	67872
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/2/2022 5:30:29 PM	67802
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/2/2022 5:30:29 PM	67802
Surr: DNOP	74.4	51.1-141		%Rec	1	6/2/2022 5:30:29 PM	67802
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2022 4:08:00 PM	67777
Surr: BFB	87.0	37.7-212		%Rec	1	5/31/2022 4:08:00 PM	67777
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	5/31/2022 4:08:00 PM	67777
Toluene	ND	0.049		mg/Kg	1	5/31/2022 4:08:00 PM	67777
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2022 4:08:00 PM	67777
Xylenes, Total	ND	0.099		mg/Kg	1	5/31/2022 4:08:00 PM	67777
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	5/31/2022 4:08:00 PM	67777

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2205D06**
08-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-67861** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **67861** RunNo: **88448**
Prep Date: **6/2/2022** Analysis Date: **6/2/2022** SeqNo: **3137969** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-67861** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **67861** RunNo: **88448**
Prep Date: **6/2/2022** Analysis Date: **6/2/2022** SeqNo: **3137970** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Sample ID: **LCS-67872** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **67872** RunNo: **88449**
Prep Date: **6/2/2022** Analysis Date: **6/2/2022** SeqNo: **3138047** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2205D06**
08-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-67802**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **67802**	RunNo: **88418**							
Prep Date: **5/31/2022**	Analysis Date: **6/1/2022**	SeqNo: **3136875**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.3		10.00		72.8	51.1	141			

Sample ID: **LCS-67802**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **67802**	RunNo: **88418**							
Prep Date: **5/31/2022**	Analysis Date: **6/1/2022**	SeqNo: **3136893**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.8	64.4	127			
Surr: DNOP	2.9		5.000		58.3	51.1	141			

Sample ID: **MB-67821**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **67821**	RunNo: **88418**							
Prep Date: **6/1/2022**	Analysis Date: **6/3/2022**	SeqNo: **3138396**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		90.0	51.1	141			

Sample ID: **LCS-67821**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **67821**	RunNo: **88418**							
Prep Date: **6/1/2022**	Analysis Date: **6/3/2022**	SeqNo: **3138397**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		76.1	51.1	141			

Sample ID: **MB-67871**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **67871**	RunNo: **88418**							
Prep Date: **6/2/2022**	Analysis Date: **6/4/2022**	SeqNo: **3140066**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.7		10.00		96.6	51.1	141			

Sample ID: **LCS-67871**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **67871**	RunNo: **88418**							
Prep Date: **6/2/2022**	Analysis Date: **6/4/2022**	SeqNo: **3140074**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		98.0	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2205D06**
08-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: **lcs-67777** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **67777** RunNo: **88377**
Prep Date: **5/29/2022** Analysis Date: **5/31/2022** SeqNo: **3135016** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.8	72.3	137			
Surr: BFB	1800		1000		183	37.7	212			

Sample ID: **mb-67777** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **67777** RunNo: **88377**
Prep Date: **5/29/2022** Analysis Date: **5/31/2022** SeqNo: **3135017** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		86.7	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2205D06**
08-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: **lcs-67777** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **67777** RunNo: **88377**
Prep Date: **5/29/2022** Analysis Date: **5/31/2022** SeqNo: **3135071** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.2	80	120			
Toluene	0.94	0.050	1.000	0	94.0	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.6	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	70	130			

Sample ID: **mb-67777** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **67777** RunNo: **88377**
Prep Date: **5/29/2022** Analysis Date: **5/31/2022** SeqNo: **3135072** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☒ Rush 5-day TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 4.1-0=4.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2205D06	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
5/25/22	1055	Soil	Ex-1	1x 4ozJar	ICE	001	X	X	X
	1057		Ex-2			002			
	1059		Ex-3			003			
	1101		Ex-6			004			
	1103		Ex-7			005			
	1105		Ex-9			006			
	1107		Ex-10			007			
	1109		Ex-11			008			
	1111		EW-1			009			
	1113		EW-3			010			
	1115		EW-4			011 (one sample)			
	1117		EW-5			012			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5/27/22	1030	W. Kennedy				
5/27/22	1900			CMC courier	5/28/22	0800

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other_____

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☒ **Rush** 5-day TAT

Project Name:

Project #: 5375

Project Manager: W. Kierdorf

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.1-0=4.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2205006	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
5/25/22	1119	Soil	EW-6			013	X	X	X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/27/22	1030	W. Kierdorf	[illegible]		5/27/22	1030
5/27/22	1900	[illegible]	CMC Courier	5/28/22		0800

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **EOG** Work Order Number: **2205D06** RcptNo: **1**

Received By: **Cheyenne Cason** **5/28/2022 8:00:00 AM**

Completed By: **Cheyenne Cason** **5/28/2022 8:37:46 AM**

Reviewed By: 05/28/2022

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by CMC 5/28/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Not Present			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 13, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2206300

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 19 sample(s) on 6/7/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-12
Project: Roy SWD 3
Collection Date: 6/3/2022 9:02:00 AM
Lab ID: 2206300-001 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	670	60		mg/Kg	20	6/9/2022 8:27:10 PM	68025
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 1:44:11 PM	67958
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/8/2022 1:44:11 PM	67958
Surr: DNOP	98.8	51.1-141		%Rec	1	6/8/2022 1:44:11 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2022 8:45:08 PM	67947
Surr: BFB	89.4	37.7-212		%Rec	1	6/8/2022 8:45:08 PM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/8/2022 8:45:08 PM	67947
Toluene	ND	0.050		mg/Kg	1	6/8/2022 8:45:08 PM	67947
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2022 8:45:08 PM	67947
Xylenes, Total	ND	0.099		mg/Kg	1	6/8/2022 8:45:08 PM	67947
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	6/8/2022 8:45:08 PM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-13
Project: Roy SWD 3
Collection Date: 6/3/2022 9:04:00 AM
Lab ID: 2206300-002 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	640	60		mg/Kg	20	6/9/2022 9:04:12 PM	68025
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 2:56:07 PM	67958
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/8/2022 2:56:07 PM	67958
Surr: DNOP	93.4	51.1-141		%Rec	1	6/8/2022 2:56:07 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/8/2022 11:06:10 PM	67947
Surr: BFB	92.6	37.7-212		%Rec	1	6/8/2022 11:06:10 PM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/8/2022 11:06:10 PM	67947
Toluene	ND	0.048		mg/Kg	1	6/8/2022 11:06:10 PM	67947
Ethylbenzene	ND	0.048		mg/Kg	1	6/8/2022 11:06:10 PM	67947
Xylenes, Total	ND	0.096		mg/Kg	1	6/8/2022 11:06:10 PM	67947
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	6/8/2022 11:06:10 PM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-14
Project: Roy SWD 3
Collection Date: 6/3/2022 9:08:00 AM
Lab ID: 2206300-003 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	450	60		mg/Kg	20	6/9/2022 9:16:34 PM	68025
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 3:20:00 PM	67958
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/8/2022 3:20:00 PM	67958
Surr: DNOP	103	51.1-141		%Rec	1	6/8/2022 3:20:00 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/9/2022 12:16:31 AM	67947
Surr: BFB	90.2	37.7-212		%Rec	1	6/9/2022 12:16:31 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/9/2022 12:16:31 AM	67947
Toluene	ND	0.048		mg/Kg	1	6/9/2022 12:16:31 AM	67947
Ethylbenzene	ND	0.048		mg/Kg	1	6/9/2022 12:16:31 AM	67947
Xylenes, Total	ND	0.097		mg/Kg	1	6/9/2022 12:16:31 AM	67947
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	6/9/2022 12:16:31 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-15
Project: Roy SWD 3
Collection Date: 6/3/2022 9:10:00 AM
Lab ID: 2206300-004 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	550	60		mg/Kg	20	6/9/2022 9:28:55 PM	68025
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 3:43:57 PM	67958
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2022 3:43:57 PM	67958
Surr: DNOP	88.9	51.1-141		%Rec	1	6/8/2022 3:43:57 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/9/2022 12:39:53 AM	67947
Surr: BFB	90.9	37.7-212		%Rec	1	6/9/2022 12:39:53 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/9/2022 12:39:53 AM	67947
Toluene	ND	0.049		mg/Kg	1	6/9/2022 12:39:53 AM	67947
Ethylbenzene	ND	0.049		mg/Kg	1	6/9/2022 12:39:53 AM	67947
Xylenes, Total	ND	0.097		mg/Kg	1	6/9/2022 12:39:53 AM	67947
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	6/9/2022 12:39:53 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-16
Project: Roy SWD 3
Collection Date: 6/3/2022 9:12:00 AM
Lab ID: 2206300-005 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	510	60		mg/Kg	20	6/9/2022 9:41:15 PM	68025
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 4:07:45 PM	67958
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/8/2022 4:07:45 PM	67958
Surr: DNOP	91.2	51.1-141		%Rec	1	6/8/2022 4:07:45 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/9/2022 1:03:18 AM	67947
Surr: BFB	89.6	37.7-212		%Rec	1	6/9/2022 1:03:18 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/9/2022 1:03:18 AM	67947
Toluene	ND	0.050		mg/Kg	1	6/9/2022 1:03:18 AM	67947
Ethylbenzene	ND	0.050		mg/Kg	1	6/9/2022 1:03:18 AM	67947
Xylenes, Total	ND	0.099		mg/Kg	1	6/9/2022 1:03:18 AM	67947
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	6/9/2022 1:03:18 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-17
Project: Roy SWD 3
Collection Date: 6/3/2022 9:15:00 AM
Lab ID: 2206300-006 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	540	60		mg/Kg	20	6/9/2022 9:53:36 PM	68025
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 4:31:28 PM	67958
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/8/2022 4:31:28 PM	67958
Surr: DNOP	90.5	51.1-141		%Rec	1	6/8/2022 4:31:28 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/9/2022 1:26:38 AM	67947
Surr: BFB	86.3	37.7-212		%Rec	1	6/9/2022 1:26:38 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/9/2022 1:26:38 AM	67947
Toluene	ND	0.049		mg/Kg	1	6/9/2022 1:26:38 AM	67947
Ethylbenzene	ND	0.049		mg/Kg	1	6/9/2022 1:26:38 AM	67947
Xylenes, Total	ND	0.099		mg/Kg	1	6/9/2022 1:26:38 AM	67947
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	6/9/2022 1:26:38 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-18
Project: Roy SWD 3
Collection Date: 6/3/2022 9:17:00 AM
Lab ID: 2206300-007 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	460	61		mg/Kg	20	6/9/2022 10:05:56 PM	68025
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 4:55:12 PM	67958
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/8/2022 4:55:12 PM	67958
Surr: DNOP	89.1	51.1-141		%Rec	1	6/8/2022 4:55:12 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/9/2022 1:50:05 AM	67947
Surr: BFB	88.0	37.7-212		%Rec	1	6/9/2022 1:50:05 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/9/2022 1:50:05 AM	67947
Toluene	ND	0.048		mg/Kg	1	6/9/2022 1:50:05 AM	67947
Ethylbenzene	ND	0.048		mg/Kg	1	6/9/2022 1:50:05 AM	67947
Xylenes, Total	ND	0.096		mg/Kg	1	6/9/2022 1:50:05 AM	67947
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	1	6/9/2022 1:50:05 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-21
Project: Roy SWD 3
Collection Date: 6/3/2022 10:31:00 AM
Lab ID: 2206300-008 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	780	60		mg/Kg	20	6/9/2022 10:42:59 PM	68005
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 5:19:04 PM	67958
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/8/2022 5:19:04 PM	67958
Surr: DNOP	93.5	51.1-141		%Rec	1	6/8/2022 5:19:04 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/9/2022 2:13:24 AM	67947
Surr: BFB	93.7	37.7-212		%Rec	1	6/9/2022 2:13:24 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	6/9/2022 2:13:24 AM	67947
Toluene	ND	0.049		mg/Kg	1	6/9/2022 2:13:24 AM	67947
Ethylbenzene	ND	0.049		mg/Kg	1	6/9/2022 2:13:24 AM	67947
Xylenes, Total	ND	0.098		mg/Kg	1	6/9/2022 2:13:24 AM	67947
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	6/9/2022 2:13:24 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-22
Project: Roy SWD 3
Collection Date: 6/3/2022 10:17:00 AM
Lab ID: 2206300-009 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	410	60		mg/Kg	20	6/9/2022 10:55:20 PM	68005
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 5:42:53 PM	67958
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/8/2022 5:42:53 PM	67958
Surr: DNOP	84.8	51.1-141		%Rec	1	6/8/2022 5:42:53 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/9/2022 2:36:43 AM	67947
Surr: BFB	89.3	37.7-212		%Rec	1	6/9/2022 2:36:43 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/9/2022 2:36:43 AM	67947
Toluene	ND	0.048		mg/Kg	1	6/9/2022 2:36:43 AM	67947
Ethylbenzene	ND	0.048		mg/Kg	1	6/9/2022 2:36:43 AM	67947
Xylenes, Total	ND	0.097		mg/Kg	1	6/9/2022 2:36:43 AM	67947
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	6/9/2022 2:36:43 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-23
Project: Roy SWD 3
Collection Date: 6/3/2022 10:20:00 AM
Lab ID: 2206300-010 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	680	60		mg/Kg	20	6/9/2022 11:32:22 PM	68005
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 6:06:38 PM	67958
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/8/2022 6:06:38 PM	67958
Surr: DNOP	91.1	51.1-141		%Rec	1	6/8/2022 6:06:38 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/9/2022 3:00:06 AM	67947
Surr: BFB	91.0	37.7-212		%Rec	1	6/9/2022 3:00:06 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/9/2022 3:00:06 AM	67947
Toluene	ND	0.048		mg/Kg	1	6/9/2022 3:00:06 AM	67947
Ethylbenzene	ND	0.048		mg/Kg	1	6/9/2022 3:00:06 AM	67947
Xylenes, Total	ND	0.096		mg/Kg	1	6/9/2022 3:00:06 AM	67947
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	6/9/2022 3:00:06 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-24
Project: Roy SWD 3
Collection Date: 6/3/2022 10:24:00 AM
Lab ID: 2206300-011 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	280	60		mg/Kg	20	6/9/2022 11:44:44 PM	68005
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 6:30:27 PM	67958
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/8/2022 6:30:27 PM	67958
Surr: DNOP	88.2	51.1-141		%Rec	1	6/8/2022 6:30:27 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/9/2022 3:23:30 AM	67947
Surr: BFB	89.2	37.7-212		%Rec	1	6/9/2022 3:23:30 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/9/2022 3:23:30 AM	67947
Toluene	ND	0.046		mg/Kg	1	6/9/2022 3:23:30 AM	67947
Ethylbenzene	ND	0.046		mg/Kg	1	6/9/2022 3:23:30 AM	67947
Xylenes, Total	ND	0.093		mg/Kg	1	6/9/2022 3:23:30 AM	67947
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	6/9/2022 3:23:30 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-25
Project: Roy SWD 3
Collection Date: 6/3/2022 10:27:00 AM
Lab ID: 2206300-012 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	450	60		mg/Kg	20	6/9/2022 11:57:05 PM	68005
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 6:54:16 PM	67958
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/8/2022 6:54:16 PM	67958
Surr: DNOP	82.3	51.1-141		%Rec	1	6/8/2022 6:54:16 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/9/2022 4:10:25 AM	67947
Surr: BFB	89.0	37.7-212		%Rec	1	6/9/2022 4:10:25 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/9/2022 4:10:25 AM	67947
Toluene	ND	0.046		mg/Kg	1	6/9/2022 4:10:25 AM	67947
Ethylbenzene	ND	0.046		mg/Kg	1	6/9/2022 4:10:25 AM	67947
Xylenes, Total	ND	0.092		mg/Kg	1	6/9/2022 4:10:25 AM	67947
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	6/9/2022 4:10:25 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-9
Project: Roy SWD 3
Collection Date: 6/3/2022 11:02:00 AM
Lab ID: 2206300-013 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	340	60		mg/Kg	20	6/10/2022 12:09:25 AM	68005
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 7:18:13 PM	67958
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2022 7:18:13 PM	67958
Surr: DNOP	83.0	51.1-141		%Rec	1	6/8/2022 7:18:13 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/9/2022 4:34:01 AM	67947
Surr: BFB	91.0	37.7-212		%Rec	1	6/9/2022 4:34:01 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/9/2022 4:34:01 AM	67947
Toluene	ND	0.049		mg/Kg	1	6/9/2022 4:34:01 AM	67947
Ethylbenzene	ND	0.049		mg/Kg	1	6/9/2022 4:34:01 AM	67947
Xylenes, Total	ND	0.099		mg/Kg	1	6/9/2022 4:34:01 AM	67947
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	6/9/2022 4:34:01 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-10
Project: Roy SWD 3
Collection Date: 6/3/2022 11:05:00 AM
Lab ID: 2206300-014 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	290	61		mg/Kg	20	6/10/2022 12:21:46 AM	68005
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 7:42:00 PM	67958
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/8/2022 7:42:00 PM	67958
Surr: DNOP	87.7	51.1-141		%Rec	1	6/8/2022 7:42:00 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/9/2022 4:57:31 AM	67947
Surr: BFB	90.7	37.7-212		%Rec	1	6/9/2022 4:57:31 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/9/2022 4:57:31 AM	67947
Toluene	ND	0.048		mg/Kg	1	6/9/2022 4:57:31 AM	67947
Ethylbenzene	ND	0.048		mg/Kg	1	6/9/2022 4:57:31 AM	67947
Xylenes, Total	ND	0.096		mg/Kg	1	6/9/2022 4:57:31 AM	67947
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	6/9/2022 4:57:31 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-11
Project: Roy SWD 3
Collection Date: 6/3/2022 11:10:00 AM
Lab ID: 2206300-015 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	270	60		mg/Kg	20	6/10/2022 12:34:07 AM	68005
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 8:05:51 PM	67958
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2022 8:05:51 PM	67958
Surr: DNOP	69.0	51.1-141		%Rec	1	6/8/2022 8:05:51 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/9/2022 5:21:00 AM	67947
Surr: BFB	90.1	37.7-212		%Rec	1	6/9/2022 5:21:00 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/9/2022 5:21:00 AM	67947
Toluene	ND	0.048		mg/Kg	1	6/9/2022 5:21:00 AM	67947
Ethylbenzene	ND	0.048		mg/Kg	1	6/9/2022 5:21:00 AM	67947
Xylenes, Total	ND	0.096		mg/Kg	1	6/9/2022 5:21:00 AM	67947
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	6/9/2022 5:21:00 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-12
Project: Roy SWD 3
Collection Date: 6/3/2022 11:13:00 AM
Lab ID: 2206300-016 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	130	60		mg/Kg	20	6/10/2022 1:11:11 AM	68005
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 8:29:42 PM	67958
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/8/2022 8:29:42 PM	67958
Surr: DNOP	74.6	51.1-141		%Rec	1	6/8/2022 8:29:42 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/9/2022 5:44:27 AM	67947
Surr: BFB	87.3	37.7-212		%Rec	1	6/9/2022 5:44:27 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/9/2022 5:44:27 AM	67947
Toluene	ND	0.048		mg/Kg	1	6/9/2022 5:44:27 AM	67947
Ethylbenzene	ND	0.048		mg/Kg	1	6/9/2022 5:44:27 AM	67947
Xylenes, Total	ND	0.096		mg/Kg	1	6/9/2022 5:44:27 AM	67947
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	1	6/9/2022 5:44:27 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-13
Project: Roy SWD 3
Collection Date: 6/3/2022 11:17:00 AM
Lab ID: 2206300-017 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	310	60		mg/Kg	20	6/10/2022 1:23:32 AM	68005
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 8:53:31 PM	67958
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/8/2022 8:53:31 PM	67958
Surr: DNOP	70.9	51.1-141		%Rec	1	6/8/2022 8:53:31 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/9/2022 6:08:03 AM	67947
Surr: BFB	88.9	37.7-212		%Rec	1	6/9/2022 6:08:03 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/9/2022 6:08:03 AM	67947
Toluene	ND	0.047		mg/Kg	1	6/9/2022 6:08:03 AM	67947
Ethylbenzene	ND	0.047		mg/Kg	1	6/9/2022 6:08:03 AM	67947
Xylenes, Total	ND	0.094		mg/Kg	1	6/9/2022 6:08:03 AM	67947
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	6/9/2022 6:08:03 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-29
Project: Roy SWD 3
Collection Date: 6/3/2022 12:28:00 PM
Lab ID: 2206300-018 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	290	60		mg/Kg	20	6/10/2022 2:00:34 AM	68005
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/8/2022 9:17:17 PM	67958
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/8/2022 9:17:17 PM	67958
Surr: DNOP	74.1	51.1-141		%Rec	1	6/8/2022 9:17:17 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/9/2022 6:31:33 AM	67947
Surr: BFB	88.6	37.7-212		%Rec	1	6/9/2022 6:31:33 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/9/2022 6:31:33 AM	67947
Toluene	ND	0.048		mg/Kg	1	6/9/2022 6:31:33 AM	67947
Ethylbenzene	ND	0.048		mg/Kg	1	6/9/2022 6:31:33 AM	67947
Xylenes, Total	ND	0.095		mg/Kg	1	6/9/2022 6:31:33 AM	67947
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	6/9/2022 6:31:33 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206300**
Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-30
Project: Roy SWD 3
Collection Date: 6/3/2022 12:31:00 PM
Lab ID: 2206300-019 **Matrix:** SOIL **Received Date:** 6/7/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	360	60		mg/Kg	20	6/10/2022 2:12:55 AM	68005
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/8/2022 9:41:05 PM	67958
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/8/2022 9:41:05 PM	67958
Surr: DNOP	70.9	51.1-141		%Rec	1	6/8/2022 9:41:05 PM	67958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/9/2022 6:55:06 AM	67947
Surr: BFB	86.8	37.7-212		%Rec	1	6/9/2022 6:55:06 AM	67947
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/9/2022 6:55:06 AM	67947
Toluene	ND	0.049		mg/Kg	1	6/9/2022 6:55:06 AM	67947
Ethylbenzene	ND	0.049		mg/Kg	1	6/9/2022 6:55:06 AM	67947
Xylenes, Total	ND	0.099		mg/Kg	1	6/9/2022 6:55:06 AM	67947
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	6/9/2022 6:55:06 AM	67947

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2206300**
13-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-68025** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **68025** RunNo: **88636**
Prep Date: **6/9/2022** Analysis Date: **6/9/2022** SeqNo: **3146113** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-68025** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **68025** RunNo: **88636**
Prep Date: **6/9/2022** Analysis Date: **6/9/2022** SeqNo: **3146114** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Sample ID: **MB-68005** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **68005** RunNo: **88636**
Prep Date: **6/9/2022** Analysis Date: **6/9/2022** SeqNo: **3146143** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-68005** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **68005** RunNo: **88636**
Prep Date: **6/9/2022** Analysis Date: **6/9/2022** SeqNo: **3146144** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2206300**
13-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-67958** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **67958** RunNo: **88561**
Prep Date: **6/7/2022** Analysis Date: **6/8/2022** SeqNo: **3144709** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		99.5	51.1	141			

Sample ID: **LCS-67958** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **67958** RunNo: **88561**
Prep Date: **6/7/2022** Analysis Date: **6/8/2022** SeqNo: **3144710** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.2	64.4	127			
Surr: DNOP	3.8		5.000		75.9	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2206300**
13-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: **lcs-67947** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **67947** RunNo: **88560**
Prep Date: **6/7/2022** Analysis Date: **6/8/2022** SeqNo: **3143805** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	72.3	137			
Surr: BFB	2100		1000		213	37.7	212			S

Sample ID: **mb-67947** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **67947** RunNo: **88560**
Prep Date: **6/7/2022** Analysis Date: **6/8/2022** SeqNo: **3143807** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.6	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2206300**
13-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: **LCS-67947** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **67947** RunNo: **88560**
Prep Date: **6/7/2022** Analysis Date: **6/8/2022** SeqNo: **3143855** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	80	120			
Toluene	0.98	0.050	1.000	0	97.9	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	70	130			

Sample ID: **mb-67947** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **67947** RunNo: **88560**
Prep Date: **6/7/2022** Analysis Date: **6/8/2022** SeqNo: **3143857** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2206300 | RcptNo: 1

Received By: Cheyenne Cason 6/7/2022 7:00:00 AM

Completed By: Cheyenne Cason 6/7/2022 7:23:57 AM

Reviewed By: JB 6-7-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: CMC 6/7/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Not Present			

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other_____

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☒ Rush 5 day EOG TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☒ Yes ☐ No

# of Coolers: 1 (2)

Cooler Temp (including CF): 2°C -0.2 = 1.8°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No 2206300	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
6/3/22	0902	soil	Ex-12	1 x 4oz jar	ICE	001	X	X	X
	0904		Ex-13			002			
	0908		Ex-14			003			
	0910		Ex-15			004			
	0912		Ex-16			005			
	0915		Ex-17			006			
	0917		Ex-18			007			
	1031		Ex-21			008			
	1017		Ex-22			009			
	1020		Ex-23			010			
	1024		Ex-24			011			
↓	1027	↓	Ex-25	↓	↓	012	↓	↓	↓

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/6/22	700	T. Martinez			6/6/22	700
6/6/22	1900		CMC Courier		6/7/22	0700

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repor

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☒ Rush 5 Day EOG TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 2 +0.2 = 2.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No 2206300	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
6-3-22	1102	soil	EW-9	1 x 4oz Jar	ICE	013	X	X	X
	1105		EW-10			014			
	1110		EW-11			015			
	1113		EW-12			016			
	1117		EW-13			017			
	1228		EX-29			018			
	1231		EX-30			019			

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/6/22	700	J. Martinez			6/6/22	700
6/6/22	1900		CMC courier		6/7/22	0700

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 06, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2206593

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 30 sample(s) on 6/10/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 21, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-19
Project: Roy SWD 3
Collection Date: 6/6/2022 9:15:00 AM
Lab ID: 2206593-001 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	360	60		mg/Kg	20	6/14/2022 6:02:54 PM	68102
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/15/2022 7:31:11 PM	68065
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/15/2022 7:31:11 PM	68065
Surr: DNOP	93.5	51.1-141		%Rec	1	6/15/2022 7:31:11 PM	68065
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2022 4:51:00 PM	68042
Surr: BFB	80.6	37.7-212		%Rec	1	6/13/2022 4:51:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	6/13/2022 4:51:00 PM	68042
Toluene	ND	0.049		mg/Kg	1	6/13/2022 4:51:00 PM	68042
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2022 4:51:00 PM	68042
Xylenes, Total	ND	0.098		mg/Kg	1	6/13/2022 4:51:00 PM	68042
Surr: 4-Bromofluorobenzene	80.6	70-130		%Rec	1	6/13/2022 4:51:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-20
Project: Roy SWD 3
Collection Date: 6/6/2022 1:50:00 PM
Lab ID: 2206593-002 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	560	59		mg/Kg	20	6/14/2022 6:15:19 PM	68102
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/15/2022 7:41:58 PM	68065
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/15/2022 7:41:58 PM	68065
Surr: DNOP	85.1	51.1-141		%Rec	1	6/15/2022 7:41:58 PM	68065
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/13/2022 5:51:00 PM	68042
Surr: BFB	84.8	37.7-212		%Rec	1	6/13/2022 5:51:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/13/2022 5:51:00 PM	68042
Toluene	ND	0.048		mg/Kg	1	6/13/2022 5:51:00 PM	68042
Ethylbenzene	ND	0.048		mg/Kg	1	6/13/2022 5:51:00 PM	68042
Xylenes, Total	ND	0.096		mg/Kg	1	6/13/2022 5:51:00 PM	68042
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	6/13/2022 5:51:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-26
Project: Roy SWD 3
Collection Date: 6/6/2022 2:45:00 PM
Lab ID: 2206593-003 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	410	60		mg/Kg	20	6/15/2022 2:24:22 PM	68131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/15/2022 7:52:44 PM	68065
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2022 7:52:44 PM	68065
Surr: DNOP	96.4	51.1-141		%Rec	1	6/15/2022 7:52:44 PM	68065
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2022 6:50:00 PM	68042
Surr: BFB	88.0	37.7-212		%Rec	1	6/13/2022 6:50:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025		mg/Kg	1	6/13/2022 6:50:00 PM	68042
Toluene	ND	0.050		mg/Kg	1	6/13/2022 6:50:00 PM	68042
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2022 6:50:00 PM	68042
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2022 6:50:00 PM	68042
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	6/13/2022 6:50:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-27
Project: Roy SWD 3
Collection Date: 6/6/2022 9:20:00 AM
Lab ID: 2206593-004 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	450	60		mg/Kg	20	6/15/2022 2:36:42 PM	68131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/15/2022 8:03:31 PM	68065
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2022 8:03:31 PM	68065
Surr: DNOP	86.0	51.1-141		%Rec	1	6/15/2022 8:03:31 PM	68065
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/13/2022 7:10:00 PM	68042
Surr: BFB	82.6	37.7-212		%Rec	1	6/13/2022 7:10:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	6/13/2022 7:10:00 PM	68042
Toluene	ND	0.047		mg/Kg	1	6/13/2022 7:10:00 PM	68042
Ethylbenzene	ND	0.047		mg/Kg	1	6/13/2022 7:10:00 PM	68042
Xylenes, Total	ND	0.094		mg/Kg	1	6/13/2022 7:10:00 PM	68042
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	6/13/2022 7:10:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-28
Project: Roy SWD 3
Collection Date: 6/6/2022 1:52:00 PM
Lab ID: 2206593-005 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	860	60		mg/Kg	20	6/15/2022 2:49:03 PM	68131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/15/2022 8:14:20 PM	68065
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/15/2022 8:14:20 PM	68065
Surr: DNOP	72.1	51.1-141		%Rec	1	6/15/2022 8:14:20 PM	68065
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2022 7:30:00 PM	68042
Surr: BFB	83.7	37.7-212		%Rec	1	6/13/2022 7:30:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	6/13/2022 7:30:00 PM	68042
Toluene	ND	0.049		mg/Kg	1	6/13/2022 7:30:00 PM	68042
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2022 7:30:00 PM	68042
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2022 7:30:00 PM	68042
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	6/13/2022 7:30:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-31
Project: Roy SWD 3
Collection Date: 6/6/2022 9:24:00 AM
Lab ID: 2206593-006 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	190	60		mg/Kg	20	6/15/2022 3:01:24 PM	68131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/15/2022 8:25:09 PM	68065
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	6/15/2022 8:25:09 PM	68065
Surr: DNOP	86.8	51.1-141		%Rec	1	6/15/2022 8:25:09 PM	68065
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2022 7:49:00 PM	68042
Surr: BFB	90.1	37.7-212		%Rec	1	6/13/2022 7:49:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025		mg/Kg	1	6/13/2022 7:49:00 PM	68042
Toluene	ND	0.050		mg/Kg	1	6/13/2022 7:49:00 PM	68042
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2022 7:49:00 PM	68042
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2022 7:49:00 PM	68042
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	6/13/2022 7:49:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-32
Project: Roy SWD 3
Collection Date: 6/6/2022 11:17:00 AM
Lab ID: 2206593-007 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	200	60		mg/Kg	20	6/15/2022 3:13:46 PM	68131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/16/2022 3:38:49 PM	68065
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/16/2022 3:38:49 PM	68065
Surr: DNOP	63.2	51.1-141		%Rec	1	6/16/2022 3:38:49 PM	68065
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/13/2022 8:09:00 PM	68042
Surr: BFB	82.9	37.7-212		%Rec	1	6/13/2022 8:09:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	6/13/2022 8:09:00 PM	68042
Toluene	ND	0.048		mg/Kg	1	6/13/2022 8:09:00 PM	68042
Ethylbenzene	ND	0.048		mg/Kg	1	6/13/2022 8:09:00 PM	68042
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2022 8:09:00 PM	68042
Surr: 4-Bromofluorobenzene	81.7	70-130		%Rec	1	6/13/2022 8:09:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-14
Project: Roy SWD 3
Collection Date: 6/6/2022 2:47:00 PM
Lab ID: 2206593-008 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	170	60		mg/Kg	20	6/15/2022 3:50:49 PM	68131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/15/2022 8:46:49 PM	68065
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2022 8:46:49 PM	68065
Surr: DNOP	79.2	51.1-141		%Rec	1	6/15/2022 8:46:49 PM	68065
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2022 8:29:00 PM	68042
Surr: BFB	84.8	37.7-212		%Rec	1	6/13/2022 8:29:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	6/13/2022 8:29:00 PM	68042
Toluene	ND	0.049		mg/Kg	1	6/13/2022 8:29:00 PM	68042
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2022 8:29:00 PM	68042
Xylenes, Total	ND	0.098		mg/Kg	1	6/13/2022 8:29:00 PM	68042
Surr: 4-Bromofluorobenzene	82.9	70-130		%Rec	1	6/13/2022 8:29:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-15
Project: Roy SWD 3
Collection Date: 6/6/2022 1:54:00 PM
Lab ID: 2206593-009 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	160	60		mg/Kg	20	6/15/2022 4:03:09 PM	68131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/15/2022 9:30:10 PM	68067
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2022 9:30:10 PM	68067
Surr: DNOP	81.8	51.1-141		%Rec	1	6/15/2022 9:30:10 PM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2022 8:49:00 PM	68042
Surr: BFB	129	37.7-212		%Rec	1	6/13/2022 8:49:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025		mg/Kg	1	6/13/2022 8:49:00 PM	68042
Toluene	ND	0.049		mg/Kg	1	6/13/2022 8:49:00 PM	68042
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2022 8:49:00 PM	68042
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2022 8:49:00 PM	68042
Surr: 4-Bromofluorobenzene	130	70-130	S	%Rec	1	6/13/2022 8:49:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-16
Project: Roy SWD 3
Collection Date: 6/6/2022 1:56:00 PM
Lab ID: 2206593-010 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	160	60		mg/Kg	20	6/15/2022 4:40:12 PM	68131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/15/2022 10:03:25 PM	68067
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/15/2022 10:03:25 PM	68067
Surr: DNOP	86.0	51.1-141		%Rec	1	6/15/2022 10:03:25 PM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/13/2022 9:09:00 PM	68042
Surr: BFB	85.1	37.7-212		%Rec	1	6/13/2022 9:09:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.023		mg/Kg	1	6/13/2022 9:09:00 PM	68042
Toluene	ND	0.047		mg/Kg	1	6/13/2022 9:09:00 PM	68042
Ethylbenzene	ND	0.047		mg/Kg	1	6/13/2022 9:09:00 PM	68042
Xylenes, Total	ND	0.094		mg/Kg	1	6/13/2022 9:09:00 PM	68042
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	6/13/2022 9:09:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-17
Project: Roy SWD 3
Collection Date: 6/7/2022 11:50:00 AM
Lab ID: 2206593-011 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	84	60		mg/Kg	20	6/15/2022 5:17:13 PM	68131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/15/2022 10:14:39 PM	68067
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2022 10:14:39 PM	68067
Surr: DNOP	74.6	51.1-141		%Rec	1	6/15/2022 10:14:39 PM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2022 9:48:00 PM	68042
Surr: BFB	84.1	37.7-212		%Rec	1	6/13/2022 9:48:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/13/2022 9:48:00 PM	68042
Toluene	ND	0.049		mg/Kg	1	6/13/2022 9:48:00 PM	68042
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2022 9:48:00 PM	68042
Xylenes, Total	ND	0.098		mg/Kg	1	6/13/2022 9:48:00 PM	68042
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	6/13/2022 9:48:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-33
Project: Roy SWD 3
Collection Date: 6/7/2022 10:30:00 AM
Lab ID: 2206593-012 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	830	60		mg/Kg	20	6/15/2022 5:29:34 PM	68131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/15/2022 10:25:55 PM	68067
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/15/2022 10:25:55 PM	68067
Surr: DNOP	83.5	51.1-141		%Rec	1	6/15/2022 10:25:55 PM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/13/2022 10:08:00 PM	68042
Surr: BFB	88.3	37.7-212		%Rec	1	6/13/2022 10:08:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/13/2022 10:08:00 PM	68042
Toluene	ND	0.048		mg/Kg	1	6/13/2022 10:08:00 PM	68042
Ethylbenzene	ND	0.048		mg/Kg	1	6/13/2022 10:08:00 PM	68042
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2022 10:08:00 PM	68042
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	6/13/2022 10:08:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-34
Project: Roy SWD 3
Collection Date: 6/7/2022 10:32:00 AM
Lab ID: 2206593-013 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	710	59		mg/Kg	20	6/15/2022 5:41:55 PM	68131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/15/2022 10:37:11 PM	68067
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2022 10:37:11 PM	68067
Surr: DNOP	89.9	51.1-141		%Rec	1	6/15/2022 10:37:11 PM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2022 10:28:00 PM	68042
Surr: BFB	84.9	37.7-212		%Rec	1	6/13/2022 10:28:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	6/13/2022 10:28:00 PM	68042
Toluene	ND	0.050		mg/Kg	1	6/13/2022 10:28:00 PM	68042
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2022 10:28:00 PM	68042
Xylenes, Total	ND	0.10		mg/Kg	1	6/13/2022 10:28:00 PM	68042
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	6/13/2022 10:28:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-35
Project: Roy SWD 3
Collection Date: 6/7/2022 10:34:00 AM
Lab ID: 2206593-014 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	760	60		mg/Kg	20	6/15/2022 6:43:40 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/15/2022 10:48:27 PM	68067
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2022 10:48:27 PM	68067
Surr: DNOP	82.9	51.1-141		%Rec	1	6/15/2022 10:48:27 PM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/13/2022 10:47:00 PM	68042
Surr: BFB	84.4	37.7-212		%Rec	1	6/13/2022 10:47:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	6/13/2022 10:47:00 PM	68042
Toluene	ND	0.047		mg/Kg	1	6/13/2022 10:47:00 PM	68042
Ethylbenzene	ND	0.047		mg/Kg	1	6/13/2022 10:47:00 PM	68042
Xylenes, Total	ND	0.094		mg/Kg	1	6/13/2022 10:47:00 PM	68042
Surr: 4-Bromofluorobenzene	81.7	70-130		%Rec	1	6/13/2022 10:47:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-36
Project: Roy SWD 3
Collection Date: 6/7/2022 10:36:00 AM
Lab ID: 2206593-015 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	390	60		mg/Kg	20	6/15/2022 6:56:00 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/15/2022 10:59:42 PM	68067
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2022 10:59:42 PM	68067
Surr: DNOP	76.7	51.1-141		%Rec	1	6/15/2022 10:59:42 PM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2022 11:07:00 PM	68042
Surr: BFB	83.2	37.7-212		%Rec	1	6/13/2022 11:07:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/13/2022 11:07:00 PM	68042
Toluene	ND	0.049		mg/Kg	1	6/13/2022 11:07:00 PM	68042
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2022 11:07:00 PM	68042
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2022 11:07:00 PM	68042
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	6/13/2022 11:07:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-37
Project: Roy SWD 3
Collection Date: 6/7/2022 10:38:00 AM
Lab ID: 2206593-016 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	670	60		mg/Kg	20	6/15/2022 7:08:20 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/15/2022 11:10:58 PM	68067
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2022 11:10:58 PM	68067
Surr: DNOP	74.2	51.1-141		%Rec	1	6/15/2022 11:10:58 PM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/13/2022 11:27:00 PM	68042
Surr: BFB	84.4	37.7-212		%Rec	1	6/13/2022 11:27:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/13/2022 11:27:00 PM	68042
Toluene	ND	0.048		mg/Kg	1	6/13/2022 11:27:00 PM	68042
Ethylbenzene	ND	0.048		mg/Kg	1	6/13/2022 11:27:00 PM	68042
Xylenes, Total	ND	0.096		mg/Kg	1	6/13/2022 11:27:00 PM	68042
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	6/13/2022 11:27:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-38
Project: Roy SWD 3
Collection Date: 6/7/2022 10:40:00 AM
Lab ID: 2206593-017 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	1200	60		mg/Kg	20	6/15/2022 7:20:41 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/15/2022 11:22:08 PM	68067
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/15/2022 11:22:08 PM	68067
Surr: DNOP	72.3	51.1-141		%Rec	1	6/15/2022 11:22:08 PM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2022 11:46:00 PM	68042
Surr: BFB	85.1	37.7-212		%Rec	1	6/13/2022 11:46:00 PM	68042
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025		mg/Kg	1	6/13/2022 11:46:00 PM	68042
Toluene	ND	0.050		mg/Kg	1	6/13/2022 11:46:00 PM	68042
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2022 11:46:00 PM	68042
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2022 11:46:00 PM	68042
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	6/13/2022 11:46:00 PM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-42
Project: Roy SWD 3
Collection Date: 6/7/2022 11:19:00 AM
Lab ID: 2206593-018 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	2000	59		mg/Kg	20	6/15/2022 7:33:01 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/15/2022 11:33:21 PM	68067
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2022 11:33:21 PM	68067
Surr: DNOP	76.6	51.1-141		%Rec	1	6/15/2022 11:33:21 PM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/14/2022 12:06:00 AM	68042
Surr: BFB	86.7	37.7-212		%Rec	1	6/14/2022 12:06:00 AM	68042
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/14/2022 12:06:00 AM	68042
Toluene	ND	0.048		mg/Kg	1	6/14/2022 12:06:00 AM	68042
Ethylbenzene	ND	0.048		mg/Kg	1	6/14/2022 12:06:00 AM	68042
Xylenes, Total	ND	0.096		mg/Kg	1	6/14/2022 12:06:00 AM	68042
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	6/14/2022 12:06:00 AM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-44
Project: Roy SWD 3
Collection Date: 6/7/2022 11:45:00 AM
Lab ID: 2206593-019 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	1100	61		mg/Kg	20	6/15/2022 7:45:23 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/15/2022 11:44:32 PM	68067
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2022 11:44:32 PM	68067
Surr: DNOP	91.0	51.1-141		%Rec	1	6/15/2022 11:44:32 PM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2022 12:25:00 AM	68042
Surr: BFB	85.1	37.7-212		%Rec	1	6/14/2022 12:25:00 AM	68042
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	6/14/2022 12:25:00 AM	68042
Toluene	ND	0.049		mg/Kg	1	6/14/2022 12:25:00 AM	68042
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2022 12:25:00 AM	68042
Xylenes, Total	ND	0.099		mg/Kg	1	6/14/2022 12:25:00 AM	68042
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	6/14/2022 12:25:00 AM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-45
Project: Roy SWD 3
Collection Date: 6/7/2022 11:47:00 AM
Lab ID: 2206593-020 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	660	60		mg/Kg	20	6/15/2022 7:57:44 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/15/2022 11:55:40 PM	68067
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2022 11:55:40 PM	68067
Surr: DNOP	86.8	51.1-141		%Rec	1	6/15/2022 11:55:40 PM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/14/2022 12:45:00 AM	68042
Surr: BFB	85.6	37.7-212		%Rec	1	6/14/2022 12:45:00 AM	68042
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/14/2022 12:45:00 AM	68042
Toluene	ND	0.048		mg/Kg	1	6/14/2022 12:45:00 AM	68042
Ethylbenzene	ND	0.048		mg/Kg	1	6/14/2022 12:45:00 AM	68042
Xylenes, Total	ND	0.097		mg/Kg	1	6/14/2022 12:45:00 AM	68042
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	6/14/2022 12:45:00 AM	68042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** ETH-1/7
Project: Roy SWD 3 **Collection Date:** 6/9/2022 10:45:00 AM
Lab ID: 2206593-021 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	3700	150		mg/Kg	50	6/16/2022 11:24:46 AM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/16/2022 12:06:46 AM	68067
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/16/2022 12:06:46 AM	68067
Surr: DNOP	90.3	51.1-141		%Rec	1	6/16/2022 12:06:46 AM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2022 2:43:00 AM	68044
Surr: BFB	92.2	37.7-212		%Rec	1	6/14/2022 2:43:00 AM	68044
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/14/2022 2:43:00 AM	68044
Toluene	ND	0.049		mg/Kg	1	6/14/2022 2:43:00 AM	68044
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2022 2:43:00 AM	68044
Xylenes, Total	ND	0.098		mg/Kg	1	6/14/2022 2:43:00 AM	68044
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	6/14/2022 2:43:00 AM	68044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: ETH-1/14
Project: Roy SWD 3
Collection Date: 6/9/2022 11:19:00 AM
Lab ID: 2206593-022 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	600	60		mg/Kg	20	6/15/2022 8:47:05 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 12:17:54 AM	68067
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/16/2022 12:17:54 AM	68067
Surr: DNOP	82.2	51.1-141		%Rec	1	6/16/2022 12:17:54 AM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2022 3:42:00 AM	68044
Surr: BFB	85.5	37.7-212		%Rec	1	6/14/2022 3:42:00 AM	68044
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/14/2022 3:42:00 AM	68044
Toluene	ND	0.049		mg/Kg	1	6/14/2022 3:42:00 AM	68044
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2022 3:42:00 AM	68044
Xylenes, Total	ND	0.097		mg/Kg	1	6/14/2022 3:42:00 AM	68044
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	6/14/2022 3:42:00 AM	68044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: ETH-1/18
Project: Roy SWD 3
Collection Date: 6/9/2022 11:42:00 AM
Lab ID: 2206593-023 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	380	60		mg/Kg	20	6/15/2022 8:59:25 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 12:29:02 AM	68067
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/16/2022 12:29:02 AM	68067
Surr: DNOP	81.1	51.1-141		%Rec	1	6/16/2022 12:29:02 AM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2022 4:41:00 AM	68044
Surr: BFB	88.5	37.7-212		%Rec	1	6/14/2022 4:41:00 AM	68044
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	6/14/2022 4:41:00 AM	68044
Toluene	ND	0.049		mg/Kg	1	6/14/2022 4:41:00 AM	68044
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2022 4:41:00 AM	68044
Xylenes, Total	ND	0.098		mg/Kg	1	6/14/2022 4:41:00 AM	68044
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	1	6/14/2022 4:41:00 AM	68044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: ETH-2/7
Project: Roy SWD 3
Collection Date: 6/9/2022 1:05:00 PM
Lab ID: 2206593-024 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	2200	60		mg/Kg	20	6/15/2022 9:11:46 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/16/2022 4:02:50 PM	68067
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/16/2022 4:02:50 PM	68067
Surr: DNOP	107	51.1-141		%Rec	1	6/16/2022 4:02:50 PM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/14/2022 5:01:00 AM	68044
Surr: BFB	84.6	37.7-212		%Rec	1	6/14/2022 5:01:00 AM	68044
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	6/14/2022 5:01:00 AM	68044
Toluene	ND	0.048		mg/Kg	1	6/14/2022 5:01:00 AM	68044
Ethylbenzene	ND	0.048		mg/Kg	1	6/14/2022 5:01:00 AM	68044
Xylenes, Total	ND	0.095		mg/Kg	1	6/14/2022 5:01:00 AM	68044
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	6/14/2022 5:01:00 AM	68044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: ETH-2/12
Project: Roy SWD 3
Collection Date: 6/9/2022 1:17:00 PM
Lab ID: 2206593-025 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	480	60		mg/Kg	20	6/15/2022 9:24:07 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 12:51:06 AM	68067
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/16/2022 12:51:06 AM	68067
Surr: DNOP	101	51.1-141		%Rec	1	6/16/2022 12:51:06 AM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/14/2022 5:20:00 AM	68044
Surr: BFB	86.4	37.7-212		%Rec	1	6/14/2022 5:20:00 AM	68044
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	6/14/2022 5:20:00 AM	68044
Toluene	ND	0.047		mg/Kg	1	6/14/2022 5:20:00 AM	68044
Ethylbenzene	ND	0.047		mg/Kg	1	6/14/2022 5:20:00 AM	68044
Xylenes, Total	ND	0.093		mg/Kg	1	6/14/2022 5:20:00 AM	68044
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	6/14/2022 5:20:00 AM	68044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: ETH-2/15
Project: Roy SWD 3
Collection Date: 6/9/2022 1:29:00 PM
Lab ID: 2206593-026 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	400	60		mg/Kg	20	6/15/2022 10:01:10 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 1:02:10 AM	68067
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/16/2022 1:02:10 AM	68067
Surr: DNOP	88.7	51.1-141		%Rec	1	6/16/2022 1:02:10 AM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2022 5:40:00 AM	68044
Surr: BFB	88.3	37.7-212		%Rec	1	6/14/2022 5:40:00 AM	68044
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/14/2022 5:40:00 AM	68044
Toluene	ND	0.049		mg/Kg	1	6/14/2022 5:40:00 AM	68044
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2022 5:40:00 AM	68044
Xylenes, Total	ND	0.098		mg/Kg	1	6/14/2022 5:40:00 AM	68044
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	6/14/2022 5:40:00 AM	68044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-1
Project: Roy SWD 3
Collection Date: 6/9/2022 9:15:00 AM
Lab ID: 2206593-027 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	480	60		mg/Kg	20	6/15/2022 10:38:11 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/16/2022 1:13:15 AM	68067
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/16/2022 1:13:15 AM	68067
Surr: DNOP	84.2	51.1-141		%Rec	1	6/16/2022 1:13:15 AM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/14/2022 6:00:00 AM	68044
Surr: BFB	88.6	37.7-212		%Rec	1	6/14/2022 6:00:00 AM	68044
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	6/14/2022 6:00:00 AM	68044
Toluene	ND	0.046		mg/Kg	1	6/14/2022 6:00:00 AM	68044
Ethylbenzene	ND	0.046		mg/Kg	1	6/14/2022 6:00:00 AM	68044
Xylenes, Total	ND	0.092		mg/Kg	1	6/14/2022 6:00:00 AM	68044
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	6/14/2022 6:00:00 AM	68044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-3
Project: Roy SWD 3
Collection Date: 6/9/2022 9:17:00 AM
Lab ID: 2206593-028 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	470	60		mg/Kg	20	6/15/2022 11:15:12 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 1:24:15 AM	68067
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/16/2022 1:24:15 AM	68067
Surr: DNOP	63.5	51.1-141		%Rec	1	6/16/2022 1:24:15 AM	68067
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/14/2022 6:20:00 AM	68044
Surr: BFB	85.1	37.7-212		%Rec	1	6/14/2022 6:20:00 AM	68044
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/14/2022 6:20:00 AM	68044
Toluene	ND	0.048		mg/Kg	1	6/14/2022 6:20:00 AM	68044
Ethylbenzene	ND	0.048		mg/Kg	1	6/14/2022 6:20:00 AM	68044
Xylenes, Total	ND	0.096		mg/Kg	1	6/14/2022 6:20:00 AM	68044
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	6/14/2022 6:20:00 AM	68044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-5
Project: Roy SWD 3
Collection Date: 6/9/2022 10:02:00 AM
Lab ID: 2206593-029 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	470	60		mg/Kg	20	6/15/2022 11:27:33 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 4:48:47 PM	68103
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/16/2022 4:48:47 PM	68103
Surr: DNOP	105	51.1-141		%Rec	1	6/16/2022 4:48:47 PM	68103
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2022 6:39:00 AM	68044
Surr: BFB	87.3	37.7-212		%Rec	1	6/14/2022 6:39:00 AM	68044
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	6/14/2022 6:39:00 AM	68044
Toluene	ND	0.049		mg/Kg	1	6/14/2022 6:39:00 AM	68044
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2022 6:39:00 AM	68044
Xylenes, Total	ND	0.098		mg/Kg	1	6/14/2022 6:39:00 AM	68044
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	6/14/2022 6:39:00 AM	68044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206593**
Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-6
Project: Roy SWD 3
Collection Date: 6/9/2022 10:04:00 AM
Lab ID: 2206593-030 **Matrix:** SOIL **Received Date:** 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	470	60		mg/Kg	20	6/15/2022 11:39:54 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 4:59:43 PM	68103
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/16/2022 4:59:43 PM	68103
Surr: DNOP	98.1	51.1-141		%Rec	1	6/16/2022 4:59:43 PM	68103
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/14/2022 6:59:00 AM	68044
Surr: BFB	89.5	37.7-212		%Rec	1	6/14/2022 6:59:00 AM	68044
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	6/14/2022 6:59:00 AM	68044
Toluene	ND	0.047		mg/Kg	1	6/14/2022 6:59:00 AM	68044
Ethylbenzene	ND	0.047		mg/Kg	1	6/14/2022 6:59:00 AM	68044
Xylenes, Total	ND	0.094		mg/Kg	1	6/14/2022 6:59:00 AM	68044
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	6/14/2022 6:59:00 AM	68044

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2206593**
06-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-68102** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **68102** RunNo: **88714**
Prep Date: **6/14/2022** Analysis Date: **6/14/2022** SeqNo: **3150715** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-68102** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **68102** RunNo: **88714**
Prep Date: **6/14/2022** Analysis Date: **6/14/2022** SeqNo: **3150716** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.9	90	110			

Sample ID: **MB-68131** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **68131** RunNo: **88758**
Prep Date: **6/15/2022** Analysis Date: **6/15/2022** SeqNo: **3152167** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-68131** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **68131** RunNo: **88758**
Prep Date: **6/15/2022** Analysis Date: **6/15/2022** SeqNo: **3152168** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Sample ID: **MB-68134** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **68134** RunNo: **88758**
Prep Date: **6/15/2022** Analysis Date: **6/15/2022** SeqNo: **3152203** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-68134** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **68134** RunNo: **88758**
Prep Date: **6/15/2022** Analysis Date: **6/15/2022** SeqNo: **3152204** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2206593**
06-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-68065** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **68065** RunNo: **88742**
Prep Date: **6/13/2022** Analysis Date: **6/15/2022** SeqNo: **3151428** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.2	51.1	141			

Sample ID: **LCS-68065** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **68065** RunNo: **88742**
Prep Date: **6/13/2022** Analysis Date: **6/15/2022** SeqNo: **3152628** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	15	50.00	0	99.1	64.4	127			
Surr: DNOP	4.6		5.000		92.7	51.1	141			

Sample ID: **LCS-68067** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **68067** RunNo: **88742**
Prep Date: **6/13/2022** Analysis Date: **6/15/2022** SeqNo: **3152629** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	15	50.00	0	101	64.4	127			
Surr: DNOP	5.0		5.000		100	51.1	141			

Sample ID: **MB-68067** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **68067** RunNo: **88742**
Prep Date: **6/13/2022** Analysis Date: **6/15/2022** SeqNo: **3152630** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.7	51.1	141			

Sample ID: **LCS-68103** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **68103** RunNo: **88796**
Prep Date: **6/14/2022** Analysis Date: **6/16/2022** SeqNo: **3154083** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	15	50.00	0	116	64.4	127			
Surr: DNOP	6.0		5.000		120	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2206593**
06-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-68103** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **68103** RunNo: **88796**
Prep Date: **6/14/2022** Analysis Date: **6/16/2022** SeqNo: **3154084** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2206593**
06-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: **lcs-68042**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **68042**	RunNo: **88678**
Prep Date: **6/10/2022**	Analysis Date: **6/13/2022**	SeqNo: **3148521** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.7	72.3	137			
Surr: BFB	2800		1000		276	37.7	212			S

Sample ID: **mb-68042**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **68042**	RunNo: **88678**
Prep Date: **6/10/2022**	Analysis Date: **6/13/2022**	SeqNo: **3148522** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		82.9	37.7	212			

Sample ID: **lcs-68044**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **68044**	RunNo: **88678**
Prep Date: **6/10/2022**	Analysis Date: **6/14/2022**	SeqNo: **3148545** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.0	72.3	137			
Surr: BFB	1900		1000		191	37.7	212			

Sample ID: **mb-68044**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **68044**	RunNo: **88678**
Prep Date: **6/10/2022**	Analysis Date: **6/14/2022**	SeqNo: **3148546** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.6	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2206593**
06-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: **lcs-68042**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68042**	RunNo: **88678**
Prep Date: **6/10/2022**	Analysis Date: **6/13/2022**	SeqNo: **3148559** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.2	80	120			
Toluene	0.94	0.050	1.000	0	93.7	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.8	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		84.4	70	130			

Sample ID: **mb-68042**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68042**	RunNo: **88678**
Prep Date: **6/10/2022**	Analysis Date: **6/13/2022**	SeqNo: **3148560** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.82		1.000		82.1	70	130			

Sample ID: **lcs-68044**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68044**	RunNo: **88678**
Prep Date: **6/10/2022**	Analysis Date: **6/14/2022**	SeqNo: **3148594** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.4	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.0	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.5	70	130			

Sample ID: **mb-68044**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68044**	RunNo: **88678**
Prep Date: **6/10/2022**	Analysis Date: **6/14/2022**	SeqNo: **3148595** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG Work Order Number: 2206593 RcptNo: 1

Received By: Cheyenne Cason 6/10/2022 7:20:00 AM

Completed By: Sean Livingston 6/10/2022 8:38:17 AM

Reviewed By: KPA 6.10.22 ~~6.10.22~~ 6.10.22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: CMC 6/10/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good				

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other_____

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☒ **Rush** 5-day TAT

Project Name:

Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 5.6-0=5.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No 2206593	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
6/6/22	0915	Soil	Ex-19 ~~A~~ mg 7/6	1x 4oz. Jar	ICE	001	X	X	X
	1350		Ex-20 ~~A~~ mg 7/6			002			
	1445		Ex-26 ~~A~~ mg 7/6			003			
	0920		Ex-27 ~~A~~ 7/6 mg			004			
	1352		Ex-28 ~~A~~ 7/6 mg			005			
	0924		Ex-31 ~~A~~ 7/6 mg			006			
	1117		Ex-32			007			
	1447		EW-14			008			
	1354		EW-15			009			
	1356		EW-16			010			
6/7/22	1150		EW-17			011			
	1030		Ex-33			012			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/9/22	1458	W. Kennedy			6/9/22	1458
6/9/22	1900		CMC courier	6/10/22 Emc Emerson		0720

Remarks: Bill to EOG Artesia

Per Will, removed an "A" after sample Id's: -001, 002, 003, 004, 005, 006, 027, 028, 029 and 030. mg 7/6/22

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

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Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 5-day TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 5.6+0=5.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
6/7/22	1032	Soil	Ex-34	1x 4oz Jar	ICE	013	X	X	X
"	1034	"	Ex-35	"	"	014	"	"	"
"	1036	"	Ex-36	"	"	015	"	"	"
"	1038	"	Ex-37	"	"	016	"	"	"
"	1040	"	Ex-38	"	"	017	"	"	"
"	1119	"	Ex-42	"	"	018	"	"	"
"	1145	"	Ex-44	"	"	019	"	"	"
"	1147	"	Ex-45	"	"	020	"	"	"
6/9/22	1045	"	ETH-1/7	"	"	021	"	"	"
"	1119	"	ETH-1/14	"	"	022	"	"	"
"	1142	"	ETH-1/18	"	"	023	"	"	"
"	1305	"	ETH-2/7	"	"	024	"	"	"

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/9/22	1458	W. Kennedy	[signature]		6/9/22	1458
6/9/22	1900	[signature]	[signature]	Emc Courier	6/10/22	0720

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 5 day TAT

Project Name:
Roy SWD TAT

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 5.6 - 0 = 5.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
6/9/22	1317	Soil	ETH-2/12	1x4oz Jar	ICE	025	X	X	X
"	1329	"	ETH-2/15	"	"	026	"	"	"
6/9/22	0915	Soil	EW-1A mg7/6	1x4oz Jar	ICE	027	X	X	X
"	0917	"	EW-3A mg7/6	"	"	028	"	"	"
"	1002	"	EW-5A mg7/6	"	"	029	"	"	"
"	1004	"	EW-6A mg7/6	"	"	030	"	"	"

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/9/22	1458	W. Kennedy			6/9/22	1458
6/9/22	1900		CMC courier		6/10/22	0720

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 30, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2206B35

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 11 sample(s) on 6/22/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2206B35**
Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: ETH-3/1
Project: Roy SWD 3
Collection Date: 6/15/2022 1:10:00 PM
Lab ID: 2206B35-001 **Matrix:**
Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	6/27/2022 3:32:38 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 6:20:52 PM	68331
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2022 6:20:52 PM	68331
Surr: DNOP	105	51.1-141		%Rec	1	6/24/2022 6:20:52 PM	68331
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2022 5:16:00 PM	68296
Surr: BFB	86.5	37.7-212		%Rec	1	6/24/2022 5:16:00 PM	68296
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/24/2022 5:16:00 PM	68296
Toluene	ND	0.048		mg/Kg	1	6/24/2022 5:16:00 PM	68296
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2022 5:16:00 PM	68296
Xylenes, Total	ND	0.097		mg/Kg	1	6/24/2022 5:16:00 PM	68296
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	6/24/2022 5:16:00 PM	68296

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206B35**
Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: ETH-3/4
Project: Roy SWD 3
Collection Date: 6/15/2022 1:16:00 PM
Lab ID: 2206B35-002 **Matrix:**
Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	6/27/2022 3:45:02 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/24/2022 7:04:56 PM	68328
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/24/2022 7:04:56 PM	68328
Surr: DNOP	93.6	51.1-141		%Rec	1	6/24/2022 7:04:56 PM	68328
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2022 7:54:00 PM	68315
Surr: BFB	86.9	37.7-212		%Rec	1	6/24/2022 7:54:00 PM	68315
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/24/2022 7:54:00 PM	68315
Toluene	ND	0.049		mg/Kg	1	6/24/2022 7:54:00 PM	68315
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2022 7:54:00 PM	68315
Xylenes, Total	ND	0.097		mg/Kg	1	6/24/2022 7:54:00 PM	68315
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	6/24/2022 7:54:00 PM	68315

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206B35**
Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: ETH-3/8
Project: Roy SWD 3
Collection Date: 6/15/2022 1:33:00 PM
Lab ID: 2206B35-003 **Matrix:**
Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	75	60		mg/Kg	20	6/27/2022 4:22:15 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/24/2022 7:38:00 PM	68328
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/24/2022 7:38:00 PM	68328
Surr: DNOP	106	51.1-141		%Rec	1	6/24/2022 7:38:00 PM	68328
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/24/2022 8:53:00 PM	68315
Surr: BFB	85.7	37.7-212		%Rec	1	6/24/2022 8:53:00 PM	68315
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	6/24/2022 8:53:00 PM	68315
Toluene	ND	0.047		mg/Kg	1	6/24/2022 8:53:00 PM	68315
Ethylbenzene	ND	0.047		mg/Kg	1	6/24/2022 8:53:00 PM	68315
Xylenes, Total	ND	0.094		mg/Kg	1	6/24/2022 8:53:00 PM	68315
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	6/24/2022 8:53:00 PM	68315

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206B35**
Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-7
Project: Roy SWD 3
Collection Date: 6/20/2022 10:00:00 AM
Lab ID: 2206B35-004 **Matrix:**
Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	360	60		mg/Kg	20	6/27/2022 4:34:39 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 7:49:00 PM	68328
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/24/2022 7:49:00 PM	68328
Surr: DNOP	79.0	51.1-141		%Rec	1	6/24/2022 7:49:00 PM	68328
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2022 9:52:00 PM	68315
Surr: BFB	87.2	37.7-212		%Rec	1	6/24/2022 9:52:00 PM	68315
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	6/24/2022 9:52:00 PM	68315
Toluene	ND	0.050		mg/Kg	1	6/24/2022 9:52:00 PM	68315
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2022 9:52:00 PM	68315
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2022 9:52:00 PM	68315
Surr: 4-Bromofluorobenzene	84.5	70-130		%Rec	1	6/24/2022 9:52:00 PM	68315

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206B35**
Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-8
Project: Roy SWD 3
Collection Date: 6/20/2022 10:02:00 AM
Lab ID: 2206B35-005 **Matrix:**
Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	360	60		mg/Kg	20	6/27/2022 4:47:03 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 7:59:59 PM	68328
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2022 7:59:59 PM	68328
Surr: DNOP	79.0	51.1-141		%Rec	1	6/24/2022 7:59:59 PM	68328
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2022 10:12:00 PM	68315
Surr: BFB	86.0	37.7-212		%Rec	1	6/24/2022 10:12:00 PM	68315
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/24/2022 10:12:00 PM	68315
Toluene	ND	0.048		mg/Kg	1	6/24/2022 10:12:00 PM	68315
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2022 10:12:00 PM	68315
Xylenes, Total	ND	0.095		mg/Kg	1	6/24/2022 10:12:00 PM	68315
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	6/24/2022 10:12:00 PM	68315

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206B35**
Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-12A
Project: Roy SWD 3
Collection Date: 6/20/2022 10:37:00 AM
Lab ID: 2206B35-006 **Matrix:**
Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	520	60		mg/Kg	20	6/27/2022 5:24:16 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 8:10:59 PM	68328
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2022 8:10:59 PM	68328
Surr: DNOP	57.7	51.1-141		%Rec	1	6/24/2022 8:10:59 PM	68328
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2022 10:32:00 PM	68315
Surr: BFB	85.0	37.7-212		%Rec	1	6/24/2022 10:32:00 PM	68315
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/24/2022 10:32:00 PM	68315
Toluene	ND	0.048		mg/Kg	1	6/24/2022 10:32:00 PM	68315
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2022 10:32:00 PM	68315
Xylenes, Total	ND	0.097		mg/Kg	1	6/24/2022 10:32:00 PM	68315
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	6/24/2022 10:32:00 PM	68315

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206B35**
Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-13A
Project: Roy SWD 3
Collection Date: 6/20/2022 10:39:00 AM
Lab ID: 2206B35-007 **Matrix:**
Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	510	60		mg/Kg	20	6/27/2022 5:36:40 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 8:21:52 PM	68328
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2022 8:21:52 PM	68328
Surr: DNOP	65.3	51.1-141		%Rec	1	6/24/2022 8:21:52 PM	68328
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2022 10:52:00 PM	68315
Surr: BFB	85.2	37.7-212		%Rec	1	6/24/2022 10:52:00 PM	68315
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/24/2022 10:52:00 PM	68315
Toluene	ND	0.049		mg/Kg	1	6/24/2022 10:52:00 PM	68315
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2022 10:52:00 PM	68315
Xylenes, Total	ND	0.098		mg/Kg	1	6/24/2022 10:52:00 PM	68315
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	6/24/2022 10:52:00 PM	68315

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206B35**
Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-21A
Project: Roy SWD 3
Collection Date: 6/20/2022 11:15:00 AM
Lab ID: 2206B35-008 **Matrix:**
Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	600	60		mg/Kg	20	6/27/2022 6:13:54 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 8:32:50 PM	68328
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2022 8:32:50 PM	68328
Surr: DNOP	77.5	51.1-141		%Rec	1	6/24/2022 8:32:50 PM	68328
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2022 11:11:00 PM	68315
Surr: BFB	87.9	37.7-212		%Rec	1	6/24/2022 11:11:00 PM	68315
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	6/24/2022 11:11:00 PM	68315
Toluene	ND	0.050		mg/Kg	1	6/24/2022 11:11:00 PM	68315
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2022 11:11:00 PM	68315
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2022 11:11:00 PM	68315
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	6/24/2022 11:11:00 PM	68315

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206B35**
Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-23A
Project: Roy SWD 3
Collection Date: 6/20/2022 10:43:00 AM
Lab ID: 2206B35-009
Matrix:
Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	380	60		mg/Kg	20	6/28/2022 12:13:39 AM	68393
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 8:43:41 PM	68328
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2022 8:43:41 PM	68328
Surr: DNOP	97.1	51.1-141		%Rec	1	6/24/2022 8:43:41 PM	68328
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/24/2022 11:31:00 PM	68315
Surr: BFB	87.6	37.7-212		%Rec	1	6/24/2022 11:31:00 PM	68315
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	6/24/2022 11:31:00 PM	68315
Toluene	ND	0.046		mg/Kg	1	6/24/2022 11:31:00 PM	68315
Ethylbenzene	ND	0.046		mg/Kg	1	6/24/2022 11:31:00 PM	68315
Xylenes, Total	ND	0.092		mg/Kg	1	6/24/2022 11:31:00 PM	68315
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	6/24/2022 11:31:00 PM	68315

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206B35**
Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-28A
Project: Roy SWD 3
Collection Date: 6/20/2022 11:17:00 AM
Lab ID: 2206B35-010
Matrix:
Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	720	60		mg/Kg	20	6/28/2022 12:26:04 AM	68393
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 8:54:35 PM	68328
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/24/2022 8:54:35 PM	68328
Surr: DNOP	60.4	51.1-141		%Rec	1	6/24/2022 8:54:35 PM	68328
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/24/2022 11:51:00 PM	68315
Surr: BFB	86.5	37.7-212		%Rec	1	6/24/2022 11:51:00 PM	68315
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/24/2022 11:51:00 PM	68315
Toluene	ND	0.047		mg/Kg	1	6/24/2022 11:51:00 PM	68315
Ethylbenzene	ND	0.047		mg/Kg	1	6/24/2022 11:51:00 PM	68315
Xylenes, Total	ND	0.094		mg/Kg	1	6/24/2022 11:51:00 PM	68315
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	6/24/2022 11:51:00 PM	68315

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206B35**
Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-18
Project: Roy SWD 3
Collection Date: 6/20/2022 11:40:00 AM
Lab ID: 2206B35-011 **Matrix:**
Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	880	60		mg/Kg	20	6/28/2022 12:38:29 AM	68393
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/29/2022 3:12:37 PM	68328
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/29/2022 3:12:37 PM	68328
Surr: DNOP	68.6	51.1-141		%Rec	1	6/29/2022 3:12:37 PM	68328
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/25/2022 12:11:00 AM	68315
Surr: BFB	88.7	37.7-212		%Rec	1	6/25/2022 12:11:00 AM	68315
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/25/2022 12:11:00 AM	68315
Toluene	ND	0.049		mg/Kg	1	6/25/2022 12:11:00 AM	68315
Ethylbenzene	ND	0.049		mg/Kg	1	6/25/2022 12:11:00 AM	68315
Xylenes, Total	ND	0.098		mg/Kg	1	6/25/2022 12:11:00 AM	68315
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	6/25/2022 12:11:00 AM	68315

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206B35**

30-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-68377**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **68377**	RunNo: **89045**
Prep Date: **6/27/2022**	Analysis Date: **6/27/2022**	SeqNo: **3164356** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-68377**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **68377**	RunNo: **89045**
Prep Date: **6/27/2022**	Analysis Date: **6/27/2022**	SeqNo: **3164357** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	90	110			

Sample ID: **MB-68393**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **68393**	RunNo: **89045**
Prep Date: **6/27/2022**	Analysis Date: **6/27/2022**	SeqNo: **3164388** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-68393**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **68393**	RunNo: **89045**
Prep Date: **6/27/2022**	Analysis Date: **6/27/2022**	SeqNo: **3164389** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206B35**

30-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-68331** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **68331** RunNo: **89016**

Prep Date: **6/23/2022** Analysis Date: **6/24/2022** SeqNo: **3161315** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	15	50.00	0	121	64.4	127			
Surr: DNOP	5.8		5.000		116	51.1	141			

Sample ID: **MB-68331** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **68331** RunNo: **89016**

Prep Date: **6/23/2022** Analysis Date: **6/24/2022** SeqNo: **3161317** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.3	51.1	141			

Sample ID: **LCS-68328** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **68328** RunNo: **89016**

Prep Date: **6/23/2022** Analysis Date: **6/24/2022** SeqNo: **3162504** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	50.00	0	108	64.4	127			
Surr: DNOP	5.0		5.000		99.8	51.1	141			

Sample ID: **MB-68328** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **68328** RunNo: **89016**

Prep Date: **6/23/2022** Analysis Date: **6/24/2022** SeqNo: **3162505** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.1	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206B35**

30-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-68296**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **68296**	RunNo: **89028**
Prep Date: **6/22/2022**	Analysis Date: **6/24/2022**	SeqNo: **3161636** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.4	72.3	137			
Surr: BFB	1900		1000		191	37.7	212			

Sample ID: **mb-68296**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **68296**	RunNo: **89028**
Prep Date: **6/22/2022**	Analysis Date: **6/24/2022**	SeqNo: **3161637** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		86.6	37.7	212			

Sample ID: **lcs-68315**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **68315**	RunNo: **89028**
Prep Date: **6/23/2022**	Analysis Date: **6/24/2022**	SeqNo: **3161660** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.9	72.3	137			
Surr: BFB	1900		1000		188	37.7	212			

Sample ID: **mb-68315**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **68315**	RunNo: **89028**
Prep Date: **6/23/2022**	Analysis Date: **6/24/2022**	SeqNo: **3161661** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		87.5	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206B35**

30-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-68296**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68296**	RunNo: **89028**
Prep Date: **6/22/2022**	Analysis Date: **6/24/2022**	SeqNo: **3161708** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.3	80	120			
Toluene	0.95	0.050	1.000	0	94.8	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.8	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.3	70	130			

Sample ID: **mb-68296**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68296**	RunNo: **89028**
Prep Date: **6/22/2022**	Analysis Date: **6/24/2022**	SeqNo: **3161709** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	70	130			

Sample ID: **lcs-68315**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68315**	RunNo: **89028**
Prep Date: **6/23/2022**	Analysis Date: **6/24/2022**	SeqNo: **3161732** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.94	0.050	1.000	0	93.7	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.1	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.1	70	130			

Sample ID: **mb-68315**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68315**	RunNo: **89028**
Prep Date: **6/23/2022**	Analysis Date: **6/24/2022**	SeqNo: **3161733** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.83		1.000		83.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **EOG** Work Order Number: **2206B35** RcptNo: **1**

Received By: **Cheyenne Cason** **6/22/2022 7:20:00 AM**

Completed By: **Cheyenne Cason** **6/22/2022 9:23:23 AM**

Reviewed By: JN 6/22/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: 6-22-22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.1	Good	Not Present			

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Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 5-day TAT

Project Name:
Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy / Jorge Martinez

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 5.0+0.1 cmc 5.0 5.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2206B35	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
6/15/22	1310	Soil	ETH-3/1	1x 4oz Jar	ICE	001	X	X	X
"	1316	"	ETH-3/4	"	"	002	"	"	"
"	1333	"	ETH-3/8	"	"	003	"	"	"
6/20/22	1000	Soil	EW-7			004			
	1002		EW-8			005			
	1037		Ex-12A			006			
	1039		Ex-13A			007			
	1115		Ex-21A			008			
	1043		Ex-23A			009			
	1117		Ex-28A			010			
	1140		EW-18			011			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/21/22	0755	W. K				
6/21/22	1900					

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Received by OCD: 6/19/2025 8:41:42 AM
Released to Imaging: 9/3/2025 1:20:26 PM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 25, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2207348

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 37 sample(s) on 7/9/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-39
Project: Roy SWD 3
Collection Date: 7/7/2022 12:06:00 PM
Lab ID: 2207348-001 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	390	60		mg/Kg	20	7/14/2022 3:59:38 PM	68763
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 10:30:42 AM	68717
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2022 10:30:42 AM	68717
Surr: DNOP	88.7	51.1-141		%Rec	1	7/15/2022 10:30:42 AM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2022 10:34:00 PM	68702
Surr: BFB	81.7	37.7-212		%Rec	1	7/13/2022 10:34:00 PM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	7/13/2022 10:34:00 PM	68702
Toluene	ND	0.049		mg/Kg	1	7/13/2022 10:34:00 PM	68702
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2022 10:34:00 PM	68702
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2022 10:34:00 PM	68702
Surr: 4-Bromofluorobenzene	81.7	70-130		%Rec	1	7/13/2022 10:34:00 PM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-40
Project: Roy SWD 3
Collection Date: 7/7/2022 12:08:00 PM
Lab ID: 2207348-002 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	2300	60		mg/Kg	20	7/14/2022 4:12:02 PM	68763
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 10:54:36 AM	68717
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/15/2022 10:54:36 AM	68717
Surr: DNOP	115	51.1-141		%Rec	1	7/15/2022 10:54:36 AM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2022 10:54:00 PM	68702
Surr: BFB	83.0	37.7-212		%Rec	1	7/13/2022 10:54:00 PM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	7/13/2022 10:54:00 PM	68702
Toluene	ND	0.049		mg/Kg	1	7/13/2022 10:54:00 PM	68702
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2022 10:54:00 PM	68702
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2022 10:54:00 PM	68702
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	7/13/2022 10:54:00 PM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-41
Project: Roy SWD 3
Collection Date: 7/7/2022 12:10:00 PM
Lab ID: 2207348-003 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	990	59		mg/Kg	20	7/14/2022 4:24:27 PM	68763
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/15/2022 11:18:31 AM	68717
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/15/2022 11:18:31 AM	68717
Surr: DNOP	101	51.1-141		%Rec	1	7/15/2022 11:18:31 AM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2022 11:13:00 PM	68702
Surr: BFB	82.7	37.7-212		%Rec	1	7/13/2022 11:13:00 PM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	7/13/2022 11:13:00 PM	68702
Toluene	ND	0.050		mg/Kg	1	7/13/2022 11:13:00 PM	68702
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2022 11:13:00 PM	68702
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2022 11:13:00 PM	68702
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	7/13/2022 11:13:00 PM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-43
Project: Roy SWD 3
Collection Date: 7/7/2022 12:12:00 PM
Lab ID: 2207348-004 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	2400	150		mg/Kg	50	7/18/2022 6:25:36 PM	68763
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 11:42:27 AM	68717
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/15/2022 11:42:27 AM	68717
Surr: DNOP	100	51.1-141		%Rec	1	7/15/2022 11:42:27 AM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2022 11:33:00 PM	68702
Surr: BFB	84.0	37.7-212		%Rec	1	7/13/2022 11:33:00 PM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	7/13/2022 11:33:00 PM	68702
Toluene	ND	0.049		mg/Kg	1	7/13/2022 11:33:00 PM	68702
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2022 11:33:00 PM	68702
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2022 11:33:00 PM	68702
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	7/13/2022 11:33:00 PM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-19
Project: Roy SWD 3
Collection Date: 7/7/2022 12:14:00 PM
Lab ID: 2207348-005 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	740	60		mg/Kg	20	7/14/2022 4:49:17 PM	68763
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/15/2022 12:06:22 PM	68717
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/15/2022 12:06:22 PM	68717
Surr: DNOP	106	51.1-141		%Rec	1	7/15/2022 12:06:22 PM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2022 12:13:00 AM	68702
Surr: BFB	86.2	37.7-212		%Rec	1	7/14/2022 12:13:00 AM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	7/14/2022 12:13:00 AM	68702
Toluene	ND	0.048		mg/Kg	1	7/14/2022 12:13:00 AM	68702
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2022 12:13:00 AM	68702
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2022 12:13:00 AM	68702
Surr: 4-Bromofluorobenzene	84.2	70-130		%Rec	1	7/14/2022 12:13:00 AM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-1
Project: Roy SWD 3
Collection Date: 7/8/2022 9:00:00 AM
Lab ID: 2207348-006 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	750	60		mg/Kg	20	7/14/2022 5:01:43 PM	68763
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/15/2022 12:30:17 PM	68717
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/15/2022 12:30:17 PM	68717
Surr: DNOP	59.0	51.1-141		%Rec	1	7/15/2022 12:30:17 PM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 12:33:00 AM	68702
Surr: BFB	83.0	37.7-212		%Rec	1	7/14/2022 12:33:00 AM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	7/14/2022 12:33:00 AM	68702
Toluene	ND	0.049		mg/Kg	1	7/14/2022 12:33:00 AM	68702
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 12:33:00 AM	68702
Xylenes, Total	ND	0.098		mg/Kg	1	7/14/2022 12:33:00 AM	68702
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	7/14/2022 12:33:00 AM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-2
Project: Roy SWD 3
Collection Date: 7/8/2022 9:02:00 AM
Lab ID: 2207348-007 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1600	60		mg/Kg	20	7/14/2022 5:14:07 PM	68763
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/15/2022 12:54:16 PM	68717
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/15/2022 12:54:16 PM	68717
Surr: DNOP	79.4	51.1-141		%Rec	1	7/15/2022 12:54:16 PM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2022 12:52:00 AM	68702
Surr: BFB	84.5	37.7-212		%Rec	1	7/14/2022 12:52:00 AM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	7/14/2022 12:52:00 AM	68702
Toluene	ND	0.048		mg/Kg	1	7/14/2022 12:52:00 AM	68702
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2022 12:52:00 AM	68702
Xylenes, Total	ND	0.096		mg/Kg	1	7/14/2022 12:52:00 AM	68702
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	7/14/2022 12:52:00 AM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-3
Project: Roy SWD 3
Collection Date: 7/8/2022 9:04:00 AM
Lab ID: 2207348-008 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1200	60		mg/Kg	20	7/14/2022 5:26:33 PM	68763
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 1:18:07 PM	68717
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/15/2022 1:18:07 PM	68717
Surr: DNOP	96.5	51.1-141		%Rec	1	7/15/2022 1:18:07 PM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2022 1:12:00 AM	68702
Surr: BFB	84.6	37.7-212		%Rec	1	7/14/2022 1:12:00 AM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	7/14/2022 1:12:00 AM	68702
Toluene	ND	0.048		mg/Kg	1	7/14/2022 1:12:00 AM	68702
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2022 1:12:00 AM	68702
Xylenes, Total	ND	0.096		mg/Kg	1	7/14/2022 1:12:00 AM	68702
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	7/14/2022 1:12:00 AM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-4
Project: Roy SWD 3
Collection Date: 7/8/2022 9:06:00 AM
Lab ID: 2207348-009 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1600	60		mg/Kg	20	7/14/2022 12:16:53 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/15/2022 1:42:04 PM	68717
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/15/2022 1:42:04 PM	68717
Surr: DNOP	78.0	51.1-141		%Rec	1	7/15/2022 1:42:04 PM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 1:32:00 AM	68702
Surr: BFB	84.0	37.7-212		%Rec	1	7/14/2022 1:32:00 AM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	7/14/2022 1:32:00 AM	68702
Toluene	ND	0.049		mg/Kg	1	7/14/2022 1:32:00 AM	68702
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 1:32:00 AM	68702
Xylenes, Total	ND	0.098		mg/Kg	1	7/14/2022 1:32:00 AM	68702
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	7/14/2022 1:32:00 AM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-5
Project: Roy SWD 3
Collection Date: 7/8/2022 9:08:00 AM
Lab ID: 2207348-010
Matrix: SOIL
Received Date: 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	4300	150		mg/Kg	50	7/14/2022 10:54:57 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/14/2022 4:48:07 AM	68717
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/14/2022 4:48:07 AM	68717
Surr: DNOP	7.13	51.1-141	S	%Rec	1	7/14/2022 4:48:07 AM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2022 1:52:00 AM	68702
Surr: BFB	85.1	37.7-212		%Rec	1	7/14/2022 1:52:00 AM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 1:52:00 AM	68702
Toluene	ND	0.050		mg/Kg	1	7/14/2022 1:52:00 AM	68702
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2022 1:52:00 AM	68702
Xylenes, Total	ND	0.10		mg/Kg	1	7/14/2022 1:52:00 AM	68702
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	7/14/2022 1:52:00 AM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-6
Project: Roy SWD 3
Collection Date: 7/8/2022 9:10:00 AM
Lab ID: 2207348-011
Matrix: SOIL
Received Date: 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1700	60		mg/Kg	20	7/14/2022 12:41:42 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 3:48:30 PM	68717
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2022 3:48:30 PM	68717
Surr: DNOP	88.3	51.1-141		%Rec	1	7/15/2022 3:48:30 PM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 2:11:00 AM	68702
Surr: BFB	86.3	37.7-212		%Rec	1	7/14/2022 2:11:00 AM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 2:11:00 AM	68702
Toluene	ND	0.049		mg/Kg	1	7/14/2022 2:11:00 AM	68702
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 2:11:00 AM	68702
Xylenes, Total	ND	0.098		mg/Kg	1	7/14/2022 2:11:00 AM	68702
Surr: 4-Bromofluorobenzene	82.9	70-130		%Rec	1	7/14/2022 2:11:00 AM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-7
Project: Roy SWD 3
Collection Date: 7/8/2022 9:12:00 AM
Lab ID: 2207348-012 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	2400	150		mg/Kg	50	7/14/2022 11:07:22 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 4:12:27 PM	68717
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2022 4:12:27 PM	68717
Surr: DNOP	133	51.1-141		%Rec	1	7/15/2022 4:12:27 PM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 2:31:00 AM	68702
Surr: BFB	89.9	37.7-212		%Rec	1	7/14/2022 2:31:00 AM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	7/14/2022 2:31:00 AM	68702
Toluene	ND	0.049		mg/Kg	1	7/14/2022 2:31:00 AM	68702
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 2:31:00 AM	68702
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2022 2:31:00 AM	68702
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	7/14/2022 2:31:00 AM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-8
Project: Roy SWD 3
Collection Date: 7/8/2022 9:14:00 AM
Lab ID: 2207348-013 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	740	60		mg/Kg	20	7/14/2022 1:56:12 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 4:36:28 PM	68717
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/15/2022 4:36:28 PM	68717
Surr: DNOP	109	51.1-141		%Rec	1	7/15/2022 4:36:28 PM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 2:51:00 AM	68702
Surr: BFB	83.1	37.7-212		%Rec	1	7/14/2022 2:51:00 AM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 2:51:00 AM	68702
Toluene	ND	0.049		mg/Kg	1	7/14/2022 2:51:00 AM	68702
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 2:51:00 AM	68702
Xylenes, Total	ND	0.098		mg/Kg	1	7/14/2022 2:51:00 AM	68702
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	7/14/2022 2:51:00 AM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-9
Project: Roy SWD 3
Collection Date: 7/8/2022 9:16:00 AM
Lab ID: 2207348-014 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	720	60		mg/Kg	20	7/14/2022 2:08:37 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/14/2022 10:17:29 PM	68717
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/14/2022 10:17:29 PM	68717
Surr: DNOP	129	51.1-141		%Rec	1	7/14/2022 10:17:29 PM	68717
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 3:11:00 AM	68702
Surr: BFB	84.8	37.7-212		%Rec	1	7/14/2022 3:11:00 AM	68702
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	7/14/2022 3:11:00 AM	68702
Toluene	ND	0.049		mg/Kg	1	7/14/2022 3:11:00 AM	68702
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 3:11:00 AM	68702
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2022 3:11:00 AM	68702
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	7/14/2022 3:11:00 AM	68702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-10
Project: Roy SWD 3
Collection Date: 7/8/2022 9:18:00 AM
Lab ID: 2207348-015 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1300	60		mg/Kg	20	7/14/2022 2:21:02 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/14/2022 10:41:27 PM	68718
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/14/2022 10:41:27 PM	68718
Surr: DNOP	78.8	51.1-141		%Rec	1	7/14/2022 10:41:27 PM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2022 5:33:00 PM	68709
Surr: BFB	97.8	37.7-212		%Rec	1	7/13/2022 5:33:00 PM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/13/2022 5:33:00 PM	68709
Toluene	ND	0.049		mg/Kg	1	7/13/2022 5:33:00 PM	68709
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2022 5:33:00 PM	68709
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2022 5:33:00 PM	68709
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/13/2022 5:33:00 PM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-11
Project: Roy SWD 3
Collection Date: 7/8/2022 9:20:00 AM
Lab ID: 2207348-016 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	2200	60		mg/Kg	20	7/14/2022 2:33:26 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/14/2022 11:05:20 PM	68718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2022 11:05:20 PM	68718
Surr: DNOP	64.6	51.1-141		%Rec	1	7/14/2022 11:05:20 PM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2022 6:44:13 PM	68709
Surr: BFB	99.9	37.7-212		%Rec	1	7/13/2022 6:44:13 PM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/13/2022 6:44:13 PM	68709
Toluene	ND	0.050		mg/Kg	1	7/13/2022 6:44:13 PM	68709
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2022 6:44:13 PM	68709
Xylenes, Total	ND	0.10		mg/Kg	1	7/13/2022 6:44:13 PM	68709
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/13/2022 6:44:13 PM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-12
Project: Roy SWD 3
Collection Date: 7/8/2022 9:22:00 AM
Lab ID: 2207348-017 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	180	60		mg/Kg	20	7/14/2022 2:45:52 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/14/2022 11:29:13 PM	68718
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2022 11:29:13 PM	68718
Surr: DNOP	54.4	51.1-141		%Rec	1	7/14/2022 11:29:13 PM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/13/2022 7:55:20 PM	68709
Surr: BFB	97.3	37.7-212		%Rec	1	7/13/2022 7:55:20 PM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/13/2022 7:55:20 PM	68709
Toluene	ND	0.048		mg/Kg	1	7/13/2022 7:55:20 PM	68709
Ethylbenzene	ND	0.048		mg/Kg	1	7/13/2022 7:55:20 PM	68709
Xylenes, Total	ND	0.096		mg/Kg	1	7/13/2022 7:55:20 PM	68709
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/13/2022 7:55:20 PM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** P-13
Project: Roy SWD 3 **Collection Date:** 7/8/2022 9:24:00 AM
Lab ID: 2207348-018 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	590	60		mg/Kg	20	7/14/2022 2:58:17 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/16/2022 11:43:09 AM	68805
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/16/2022 11:43:09 AM	68805
Surr: DNOP	57.6	51.1-141		%Rec	1	7/16/2022 11:43:09 AM	68805
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2022 8:18:59 PM	68709
Surr: BFB	97.1	37.7-212		%Rec	1	7/13/2022 8:18:59 PM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/13/2022 8:18:59 PM	68709
Toluene	ND	0.050		mg/Kg	1	7/13/2022 8:18:59 PM	68709
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2022 8:18:59 PM	68709
Xylenes, Total	ND	0.10		mg/Kg	1	7/13/2022 8:18:59 PM	68709
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/13/2022 8:18:59 PM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** P-14
Project: Roy SWD 3 **Collection Date:** 7/8/2022 9:26:00 AM
Lab ID: 2207348-019 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	230	60		mg/Kg	20	7/14/2022 3:10:42 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 12:17:10 AM	68718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2022 12:17:10 AM	68718
Surr: DNOP	55.4	51.1-141		%Rec	1	7/15/2022 12:17:10 AM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2022 8:42:37 PM	68709
Surr: BFB	96.9	37.7-212		%Rec	1	7/13/2022 8:42:37 PM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/13/2022 8:42:37 PM	68709
Toluene	ND	0.049		mg/Kg	1	7/13/2022 8:42:37 PM	68709
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2022 8:42:37 PM	68709
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2022 8:42:37 PM	68709
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/13/2022 8:42:37 PM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** P-15
Project: Roy SWD 3 **Collection Date:** 7/8/2022 9:28:00 AM
Lab ID: 2207348-020 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	580	60		mg/Kg	20	7/14/2022 3:23:06 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 12:41:02 AM	68718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2022 12:41:02 AM	68718
Surr: DNOP	56.5	51.1-141		%Rec	1	7/15/2022 12:41:02 AM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2022 9:06:13 PM	68709
Surr: BFB	95.8	37.7-212		%Rec	1	7/13/2022 9:06:13 PM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/13/2022 9:06:13 PM	68709
Toluene	ND	0.049		mg/Kg	1	7/13/2022 9:06:13 PM	68709
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2022 9:06:13 PM	68709
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2022 9:06:13 PM	68709
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	7/13/2022 9:06:13 PM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-16
Project: Roy SWD 3
Collection Date: 7/8/2022 9:30:00 AM
Lab ID: 2207348-021 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	900	60		mg/Kg	20	7/14/2022 3:35:31 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/15/2022 1:05:00 AM	68718
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/15/2022 1:05:00 AM	68718
Surr: DNOP	58.0	51.1-141		%Rec	1	7/15/2022 1:05:00 AM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2022 9:29:46 PM	68709
Surr: BFB	95.4	37.7-212		%Rec	1	7/13/2022 9:29:46 PM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/13/2022 9:29:46 PM	68709
Toluene	ND	0.049		mg/Kg	1	7/13/2022 9:29:46 PM	68709
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2022 9:29:46 PM	68709
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2022 9:29:46 PM	68709
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	7/13/2022 9:29:46 PM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-17
Project: Roy SWD 3
Collection Date: 7/8/2022 9:32:00 AM
Lab ID: 2207348-022 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	490	60		mg/Kg	20	7/14/2022 3:47:56 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 1:28:53 AM	68718
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/15/2022 1:28:53 AM	68718
Surr: DNOP	59.1	51.1-141		%Rec	1	7/15/2022 1:28:53 AM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2022 9:53:27 PM	68709
Surr: BFB	96.0	37.7-212		%Rec	1	7/13/2022 9:53:27 PM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/13/2022 9:53:27 PM	68709
Toluene	ND	0.049		mg/Kg	1	7/13/2022 9:53:27 PM	68709
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2022 9:53:27 PM	68709
Xylenes, Total	ND	0.097		mg/Kg	1	7/13/2022 9:53:27 PM	68709
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/13/2022 9:53:27 PM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-18
Project: Roy SWD 3
Collection Date: 7/8/2022 9:34:00 AM
Lab ID: 2207348-023 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	67	60		mg/Kg	20	7/14/2022 4:50:01 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 1:52:45 AM	68718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2022 1:52:45 AM	68718
Surr: DNOP	58.7	51.1-141		%Rec	1	7/15/2022 1:52:45 AM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2022 10:17:00 PM	68709
Surr: BFB	95.0	37.7-212		%Rec	1	7/13/2022 10:17:00 PM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/13/2022 10:17:00 PM	68709
Toluene	ND	0.050		mg/Kg	1	7/13/2022 10:17:00 PM	68709
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2022 10:17:00 PM	68709
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2022 10:17:00 PM	68709
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	7/13/2022 10:17:00 PM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-19
Project: Roy SWD 3
Collection Date: 7/8/2022 9:36:00 AM
Lab ID: 2207348-024 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	190	60		mg/Kg	20	7/14/2022 5:02:26 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 2:16:39 AM	68718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2022 2:16:39 AM	68718
Surr: DNOP	74.3	51.1-141		%Rec	1	7/15/2022 2:16:39 AM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2022 10:40:34 PM	68709
Surr: BFB	94.2	37.7-212		%Rec	1	7/13/2022 10:40:34 PM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/13/2022 10:40:34 PM	68709
Toluene	ND	0.050		mg/Kg	1	7/13/2022 10:40:34 PM	68709
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2022 10:40:34 PM	68709
Xylenes, Total	ND	0.10		mg/Kg	1	7/13/2022 10:40:34 PM	68709
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/13/2022 10:40:34 PM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-20
Project: Roy SWD 3
Collection Date: 7/8/2022 10:45:00 AM
Lab ID: 2207348-025 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	220	60		mg/Kg	20	7/14/2022 5:14:50 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 2:40:28 AM	68718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2022 2:40:28 AM	68718
Surr: DNOP	61.6	51.1-141		%Rec	1	7/15/2022 2:40:28 AM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 12:14:56 AM	68709
Surr: BFB	95.2	37.7-212		%Rec	1	7/14/2022 12:14:56 AM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 12:14:56 AM	68709
Toluene	ND	0.049		mg/Kg	1	7/14/2022 12:14:56 AM	68709
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 12:14:56 AM	68709
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2022 12:14:56 AM	68709
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	7/14/2022 12:14:56 AM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

CLIENT: EOG
Client Sample ID: P-21
Project: Roy SWD 3
Collection Date: 7/8/2022 10:47:00 AM
Lab ID: 2207348-026 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	68	60		mg/Kg	20	7/14/2022 5:27:15 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 3:04:10 AM	68718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2022 3:04:10 AM	68718
Surr: DNOP	59.2	51.1-141		%Rec	1	7/15/2022 3:04:10 AM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2022 12:38:25 AM	68709
Surr: BFB	95.3	37.7-212		%Rec	1	7/14/2022 12:38:25 AM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/14/2022 12:38:25 AM	68709
Toluene	ND	0.048		mg/Kg	1	7/14/2022 12:38:25 AM	68709
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2022 12:38:25 AM	68709
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2022 12:38:25 AM	68709
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/14/2022 12:38:25 AM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-22
Project: Roy SWD 3
Collection Date: 7/8/2022 10:49:00 AM
Lab ID: 2207348-027
Matrix: SOIL
Received Date: 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	470	60		mg/Kg	20	7/14/2022 5:39:40 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 3:27:49 AM	68718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2022 3:27:49 AM	68718
Surr: DNOP	53.4	51.1-141		%Rec	1	7/15/2022 3:27:49 AM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 1:01:57 AM	68709
Surr: BFB	95.5	37.7-212		%Rec	1	7/14/2022 1:01:57 AM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/14/2022 1:01:57 AM	68709
Toluene	ND	0.049		mg/Kg	1	7/14/2022 1:01:57 AM	68709
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 1:01:57 AM	68709
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2022 1:01:57 AM	68709
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/14/2022 1:01:57 AM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PW-1
Project: Roy SWD 3
Collection Date: 7/8/2022 10:54:00 AM
Lab ID: 2207348-028 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	320	60		mg/Kg	20	7/14/2022 5:52:04 AM	68765
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 3:51:38 AM	68718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2022 3:51:38 AM	68718
Surr: DNOP	51.6	51.1-141		%Rec	1	7/15/2022 3:51:38 AM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2022 1:25:35 AM	68709
Surr: BFB	96.5	37.7-212		%Rec	1	7/14/2022 1:25:35 AM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 1:25:35 AM	68709
Toluene	ND	0.050		mg/Kg	1	7/14/2022 1:25:35 AM	68709
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2022 1:25:35 AM	68709
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2022 1:25:35 AM	68709
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/14/2022 1:25:35 AM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PW-2
Project: Roy SWD 3
Collection Date: 7/8/2022 10:56:00 AM
Lab ID: 2207348-029 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1500	60		mg/Kg	20	7/14/2022 7:18:16 PM	68793
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/16/2022 11:57:29 AM	68805
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/16/2022 11:57:29 AM	68805
Surr: DNOP	58.8	51.1-141		%Rec	1	7/16/2022 11:57:29 AM	68805
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 1:49:12 AM	68709
Surr: BFB	96.2	37.7-212		%Rec	1	7/14/2022 1:49:12 AM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 1:49:12 AM	68709
Toluene	ND	0.049		mg/Kg	1	7/14/2022 1:49:12 AM	68709
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 1:49:12 AM	68709
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2022 1:49:12 AM	68709
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/14/2022 1:49:12 AM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PW-3
Project: Roy SWD 3
Collection Date: 7/8/2022 10:57:00 AM
Lab ID: 2207348-030 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	2300	60		mg/Kg	20	7/14/2022 7:55:31 PM	68793
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/16/2022 12:11:45 PM	68805
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/16/2022 12:11:45 PM	68805
Surr: DNOP	54.8	51.1-141		%Rec	1	7/16/2022 12:11:45 PM	68805
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 2:12:48 AM	68709
Surr: BFB	95.2	37.7-212		%Rec	1	7/14/2022 2:12:48 AM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 2:12:48 AM	68709
Toluene	ND	0.049		mg/Kg	1	7/14/2022 2:12:48 AM	68709
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 2:12:48 AM	68709
Xylenes, Total	ND	0.098		mg/Kg	1	7/14/2022 2:12:48 AM	68709
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/14/2022 2:12:48 AM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PW-4
Project: Roy SWD 3
Collection Date: 7/8/2022 10:59:00 AM
Lab ID: 2207348-031 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	3700	150		mg/Kg	50	7/18/2022 6:38:01 PM	68793
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 5:26:51 AM	68718
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/15/2022 5:26:51 AM	68718
Surr: DNOP	53.6	51.1-141		%Rec	1	7/15/2022 5:26:51 AM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 2:36:19 AM	68709
Surr: BFB	96.6	37.7-212		%Rec	1	7/14/2022 2:36:19 AM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 2:36:19 AM	68709
Toluene	ND	0.049		mg/Kg	1	7/14/2022 2:36:19 AM	68709
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 2:36:19 AM	68709
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2022 2:36:19 AM	68709
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/14/2022 2:36:19 AM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PW-5
Project: Roy SWD 3
Collection Date: 7/8/2022 11:01:00 AM
Lab ID: 2207348-032 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	5100	150		mg/Kg	50	7/18/2022 6:50:26 PM	68793
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 5:50:43 AM	68718
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/15/2022 5:50:43 AM	68718
Surr: DNOP	51.5	51.1-141		%Rec	1	7/15/2022 5:50:43 AM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 2:59:51 AM	68709
Surr: BFB	96.9	37.7-212		%Rec	1	7/14/2022 2:59:51 AM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 2:59:51 AM	68709
Toluene	ND	0.049		mg/Kg	1	7/14/2022 2:59:51 AM	68709
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 2:59:51 AM	68709
Xylenes, Total	ND	0.098		mg/Kg	1	7/14/2022 2:59:51 AM	68709
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/14/2022 2:59:51 AM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PW-6
Project: Roy SWD 3
Collection Date: 7/8/2022 11:02:00 AM
Lab ID: 2207348-033 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	680	150		mg/Kg	50	7/18/2022 7:02:50 PM	68793
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/13/2022 11:56:55 PM	68718
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2022 11:56:55 PM	68718
Surr: DNOP	8.93	51.1-141	S	%Rec	1	7/13/2022 11:56:55 PM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 3:23:23 AM	68709
Surr: BFB	94.2	37.7-212		%Rec	1	7/14/2022 3:23:23 AM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 3:23:23 AM	68709
Toluene	ND	0.049		mg/Kg	1	7/14/2022 3:23:23 AM	68709
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 3:23:23 AM	68709
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2022 3:23:23 AM	68709
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	7/14/2022 3:23:23 AM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PW-7
Project: Roy SWD 3
Collection Date: 7/8/2022 11:03:00 AM
Lab ID: 2207348-034 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	220	150		mg/Kg	50	7/18/2022 7:15:15 PM	68793
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/14/2022 12:11:06 AM	68718
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2022 12:11:06 AM	68718
Surr: DNOP	8.28	51.1-141	S	%Rec	1	7/14/2022 12:11:06 AM	68718
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2022 3:47:01 AM	68709
Surr: BFB	96.1	37.7-212		%Rec	1	7/14/2022 3:47:01 AM	68709
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 3:47:01 AM	68709
Toluene	ND	0.050		mg/Kg	1	7/14/2022 3:47:01 AM	68709
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2022 3:47:01 AM	68709
Xylenes, Total	ND	0.10		mg/Kg	1	7/14/2022 3:47:01 AM	68709
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/14/2022 3:47:01 AM	68709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PW-8
Project: Roy SWD 3
Collection Date: 7/8/2022 11:04:00 AM
Lab ID: 2207348-035 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	82	60		mg/Kg	20	7/20/2022 5:37:53 PM	68793
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/13/2022 3:02:08 PM	68719
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/13/2022 3:02:08 PM	68719
Surr: DNOP	73.8	51.1-141		%Rec	1	7/13/2022 3:02:08 PM	68719
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2022 5:09:00 AM	68713
Surr: BFB	85.4	37.7-212		%Rec	1	7/14/2022 5:09:00 AM	68713
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 5:09:00 AM	68713
Toluene	ND	0.050		mg/Kg	1	7/14/2022 5:09:00 AM	68713
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2022 5:09:00 AM	68713
Xylenes, Total	ND	0.10		mg/Kg	1	7/14/2022 5:09:00 AM	68713
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	7/14/2022 5:09:00 AM	68713

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PW-9
Project: Roy SWD 3
Collection Date: 7/8/2022 11:05:00 AM
Lab ID: 2207348-036 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	330	150		mg/Kg	50	7/18/2022 7:40:04 PM	68793
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/13/2022 3:26:07 PM	68719
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/13/2022 3:26:07 PM	68719
Surr: DNOP	91.1	51.1-141		%Rec	1	7/13/2022 3:26:07 PM	68719
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 6:09:00 AM	68713
Surr: BFB	83.7	37.7-212		%Rec	1	7/14/2022 6:09:00 AM	68713
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 6:09:00 AM	68713
Toluene	ND	0.049		mg/Kg	1	7/14/2022 6:09:00 AM	68713
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 6:09:00 AM	68713
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2022 6:09:00 AM	68713
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	7/14/2022 6:09:00 AM	68713

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207348**
Date Reported: **7/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PW-11
Project: Roy SWD 3
Collection Date: 7/8/2022 11:10:00 AM
Lab ID: 2207348-037 **Matrix:** SOIL **Received Date:** 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	7/15/2022 9:04:36 PM	68793
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/13/2022 3:50:06 PM	68719
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/13/2022 3:50:06 PM	68719
Surr: DNOP	80.7	51.1-141		%Rec	1	7/13/2022 3:50:06 PM	68719
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2022 7:08:00 AM	68713
Surr: BFB	86.1	37.7-212		%Rec	1	7/14/2022 7:08:00 AM	68713
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	7/14/2022 7:08:00 AM	68713
Toluene	ND	0.050		mg/Kg	1	7/14/2022 7:08:00 AM	68713
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2022 7:08:00 AM	68713
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2022 7:08:00 AM	68713
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	7/14/2022 7:08:00 AM	68713

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207348**

25-Jul-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-68765**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **68765**	RunNo: **89474**							
Prep Date: **7/13/2022**	Analysis Date: **7/13/2022**	SeqNo: **3183755**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-68765**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **68765**	RunNo: **89474**							
Prep Date: **7/13/2022**	Analysis Date: **7/14/2022**	SeqNo: **3183756**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.4	90	110			

Sample ID: **MB-68763**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **68763**	RunNo: **89508**							
Prep Date: **7/13/2022**	Analysis Date: **7/14/2022**	SeqNo: **3185280**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-68763**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **68763**	RunNo: **89508**							
Prep Date: **7/13/2022**	Analysis Date: **7/14/2022**	SeqNo: **3185282**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.4	90	110			

Sample ID: **MB-68793**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **68793**	RunNo: **89508**							
Prep Date: **7/14/2022**	Analysis Date: **7/14/2022**	SeqNo: **3185335**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-68793**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **68793**	RunNo: **89508**							
Prep Date: **7/14/2022**	Analysis Date: **7/14/2022**	SeqNo: **3185336**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207348**

25-Jul-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-68719**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **68719**	RunNo: **89438**
Prep Date: **7/12/2022**	Analysis Date: **7/13/2022**	SeqNo: **3183094** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		84.1	51.1	141			

Sample ID: **LCS-68719**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **68719**	RunNo: **89438**
Prep Date: **7/12/2022**	Analysis Date: **7/13/2022**	SeqNo: **3183095** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	88.2	64.4	127			
Surr: DNOP	4.1		5.000		82.0	51.1	141			

Sample ID: **MB-68718**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **68718**	RunNo: **89442**
Prep Date: **7/12/2022**	Analysis Date: **7/13/2022**	SeqNo: **3184231** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		81.3	51.1	141			

Sample ID: **LCS-68718**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **68718**	RunNo: **89442**
Prep Date: **7/12/2022**	Analysis Date: **7/13/2022**	SeqNo: **3184232** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.4	64.4	127			
Surr: DNOP	3.9		5.000		77.7	51.1	141			

Sample ID: **MB-68717**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **68717**	RunNo: **89483**
Prep Date: **7/12/2022**	Analysis Date: **7/15/2022**	SeqNo: **3184880** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	6.9		10.00		68.7	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207348**

25-Jul-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-68717**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **68717**	RunNo: **89483**
Prep Date: **7/12/2022**	Analysis Date: **7/15/2022**	SeqNo: **3184881** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	97.2	64.4	127			
Surr: DNOP	2.8		5.000		55.5	51.1	141			

Sample ID: **MB-68805**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **68805**	RunNo: **89556**
Prep Date: **7/15/2022**	Analysis Date: **7/16/2022**	SeqNo: **3188001** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	6.1		10.00		61.5	51.1	141			

Sample ID: **LCS-68805**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **68805**	RunNo: **89556**
Prep Date: **7/15/2022**	Analysis Date: **7/16/2022**	SeqNo: **3188002** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	15	50.00	0	91.2	64.4	127			
Surr: DNOP	3.4		5.000		67.0	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207348**

25-Jul-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb-68709**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **68709**	RunNo: **89443**							
Prep Date: **7/12/2022**	Analysis Date: **7/13/2022**	SeqNo: **3182545**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.0	37.7	212			

Sample ID: **lcs-68709**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **68709**	RunNo: **89443**							
Prep Date: **7/12/2022**	Analysis Date: **7/13/2022**	SeqNo: **3182546**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2000		1000		201	37.7	212			

Sample ID: **lcs-68702**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **68702**	RunNo: **89471**							
Prep Date: **7/11/2022**	Analysis Date: **7/13/2022**	SeqNo: **3183392**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.4	72.3	137			
Surr: BFB	1800		1000		184	37.7	212			

Sample ID: **mb-68702**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **68702**	RunNo: **89471**							
Prep Date: **7/11/2022**	Analysis Date: **7/13/2022**	SeqNo: **3183394**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		84.2	37.7	212			

Sample ID: **lcs-68713**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **68713**	RunNo: **89471**							
Prep Date: **7/12/2022**	Analysis Date: **7/14/2022**	SeqNo: **3183428**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.7	72.3	137			
Surr: BFB	1800		1000		175	37.7	212			

Sample ID: **mb-68713**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **68713**	RunNo: **89471**							
Prep Date: **7/12/2022**	Analysis Date: **7/14/2022**	SeqNo: **3183430**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2207348**
25-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: **mb-68713**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **68713**	RunNo: **89471**
Prep Date: **7/12/2022**	Analysis Date: **7/14/2022**	SeqNo: **3183430** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		82.6	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207348**

25-Jul-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb-68709**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68709**	RunNo: **89443**
Prep Date: **7/12/2022**	Analysis Date: **7/13/2022**	SeqNo: **3182589** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	70	130			

Sample ID: **LCS-68709**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68709**	RunNo: **89443**
Prep Date: **7/12/2022**	Analysis Date: **7/13/2022**	SeqNo: **3182590** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.6	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.2	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: **lcs-68702**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68702**	RunNo: **89471**
Prep Date: **7/11/2022**	Analysis Date: **7/13/2022**	SeqNo: **3183871** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.1	80	120			
Toluene	0.88	0.050	1.000	0	88.1	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.0	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.3	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		83.6	70	130			

Sample ID: **mb-68702**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68702**	RunNo: **89471**
Prep Date: **7/11/2022**	Analysis Date: **7/13/2022**	SeqNo: **3183872** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207348**

25-Jul-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-68713**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68713**	RunNo: **89471**
Prep Date: **7/12/2022**	Analysis Date: **7/14/2022**	SeqNo: **3183895** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.8	80	120			
Toluene	0.92	0.050	1.000	0	91.7	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.0	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.9	70	130			

Sample ID: **mb-68713**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68713**	RunNo: **89471**
Prep Date: **7/12/2022**	Analysis Date: **7/14/2022**	SeqNo: **3183896** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		84.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2207348 | RcptNo: 1

Received By: Sean Livingston 7/9/2022 9:30:00 AM Sean Livingston

Completed By: Sean Livingston 7/9/2022 10:24:34 AM Sean Livingston

Reviewed By: CMC 7/11/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JN 7/11/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good				
2	3.6	Good				
3	3.9	Good				

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time: 5 day TAT
☑ Standard ☒ **Rush**_____

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 3

Cooler Temp(including CF): 2.1°C, 3.6°C 3.9°C (CF(-3.1°C))

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2207349	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
7-7-22	1206	soil	EX-39	1x 4oz Jar	ICE	001	X	X	X
	1208		EX-40			002			
	1210		EX-41			003			
	1212		EX-43			004			
	1214		EW-19			005			
7-8-22	0900		P-1			006			
	0902		P-2			007			
	0904		P-3			008			
	0906		P-4			009			
	0908		P-5			010			
	0910		P-6			011			
	0912		P-7			012			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/8/22	1245	W. Kierdorf	[illegible]		7/8/22	1245
7/8/22	1900	[illegible]	[illegible] courier		7/9/22	9:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Page 248 of 2289

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time: 5 day TAT
☑ Standard ☐ **Rush**_____

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☑Yes ☐ No

# of Coolers: 3

Cooler Temp(including CF): 2.1°, 3.6°, 2.9° (CF(-0.1°C))

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
7-8-22	0914		P-8	1x 4oz Jar	ICE	013	X	X	X
	0916		P-9			014			
	0918		P-10			015			
	0920		P-11			016			
	0922		P-12			017			
	0924		P-13			018			
	0926		P-14			019			
	0928		P-15			020			
	0930		P-16			021			
	0932		P-17			022			
	0934		P-18			023			
↓	0936		P-19	↓	↓	024	↓	↓	↓

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/8/22	1245	W. K	[signature]		7/8/22	1245
7/9/22	1900	[signature]	[signature]	courier	7/9/22	9:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time: 5 day TAT
☑ Standard ☒ **Rush**_____

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy
On Ice: ☑ Yes ☐ No
# of Coolers: 3
Cooler Temp (including CF): 2.1°C, 3.6°C, 3.9°C (CF (-0.1°C))

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
7-8-22	1045	Soil	P-20	1 x 4oz. Jar	ICE	025	X	X	X
7-8-22	1047	Soil	P-21			026			
7-8-22	1049	Soil	P-22			027			
	1054		~~P-W~~ PW-1			028			
	1056		PW-2			029			
	1057		PW-3			030			
	1059		PW-4			031			
	1101		PW-5			032			
	1102		PW-6			033			
	1103		PW-7			034			
	1104		PW-8			035			
	1105	↓	PW-9	↓	↓	036			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/8/22	1245	W. Kennedy	A Cummings		7/8/22	1245
7/8/22	1900	A Cummings	SEL COURIER		7/9/22	9:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other_____

■ **EDD** (Type) Excel

Turn-Around Time: 5 day TAT

☑ Standard ☒ **Rush**_____

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☑ Yes ☐ No

# of Coolers: 3

Cooler Temp(including CF): 2.1°C, 3.6°C, 3.9°C CF(-0.1°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
7-8-22	1110	soil	RW-11	1x 4oz Jar	ICE	037	X	X	X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/8/22	1245	W. K			7/8/22	1245
7/8/22	1900			courier	7/9/22	9:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 20, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2207733

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/15/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2207733**
Date Reported: **7/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PW-10
Project: Roy SWD 3
Collection Date: 7/12/2022 8:00:00 AM
Lab ID: 2207733-001 **Matrix:** SOIL **Received Date:** 7/15/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	7/18/2022 1:32:05 PM	68858
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/18/2022 9:35:35 PM	68824
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/18/2022 9:35:35 PM	68824
Surr: DNOP	76.4	51.1-141		%Rec	1	7/18/2022 9:35:35 PM	68824
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/18/2022 9:38:00 AM	68813
Surr: BFB	86.9	37.7-212		%Rec	1	7/18/2022 9:38:00 AM	68813
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	7/18/2022 9:38:00 AM	68813
Toluene	ND	0.049		mg/Kg	1	7/18/2022 9:38:00 AM	68813
Ethylbenzene	ND	0.049		mg/Kg	1	7/18/2022 9:38:00 AM	68813
Xylenes, Total	ND	0.099		mg/Kg	1	7/18/2022 9:38:00 AM	68813
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	7/18/2022 9:38:00 AM	68813

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207733**
Date Reported: **7/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EX-46
Project: Roy SWD 3 **Collection Date:** 7/12/2022 8:34:00 AM
Lab ID: 2207733-002 **Matrix:** MEOH (SOIL) **Received Date:** 7/15/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	7/16/2022 3:34:40 PM	68826
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 5:32:06 PM	68806
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/15/2022 5:32:06 PM	68806
Surr: DNOP	60.8	51.1-141		%Rec	1	7/15/2022 5:32:06 PM	68806
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	7/15/2022 8:06:36 PM	68789
Surr: BFB	101	37.7-212		%Rec	1	7/15/2022 8:06:36 PM	68789
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	7/15/2022 8:06:36 PM	68789
Toluene	ND	0.043		mg/Kg	1	7/15/2022 8:06:36 PM	68789
Ethylbenzene	ND	0.043		mg/Kg	1	7/15/2022 8:06:36 PM	68789
Xylenes, Total	ND	0.086		mg/Kg	1	7/15/2022 8:06:36 PM	68789
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/15/2022 8:06:36 PM	68789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207733**
Date Reported: **7/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EX-47
Project: Roy SWD 3 **Collection Date:** 7/12/2022 8:37:00 AM
Lab ID: 2207733-003 **Matrix:** MEOH (SOIL) **Received Date:** 7/15/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	940	61		mg/Kg	20	7/16/2022 3:47:00 PM	68826
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 5:46:23 PM	68806
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2022 5:46:23 PM	68806
Surr: DNOP	63.2	51.1-141		%Rec	1	7/15/2022 5:46:23 PM	68806
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	7/15/2022 9:17:52 PM	G89514
Surr: BFB	101	37.7-212		%Rec	1	7/15/2022 9:17:52 PM	G89514
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.018		mg/Kg	1	7/15/2022 9:17:52 PM	B89514
Toluene	ND	0.037		mg/Kg	1	7/15/2022 9:17:52 PM	B89514
Ethylbenzene	ND	0.037		mg/Kg	1	7/15/2022 9:17:52 PM	B89514
Xylenes, Total	ND	0.074		mg/Kg	1	7/15/2022 9:17:52 PM	B89514
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/15/2022 9:17:52 PM	B89514

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207733**
Date Reported: **7/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EX-48
Project: Roy SWD 3 **Collection Date:** 7/12/2022 8:40:00 AM
Lab ID: 2207733-004 **Matrix:** MEOH (SOIL) **Received Date:** 7/15/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	540	60		mg/Kg	20	7/16/2022 3:59:21 PM	68826
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	7/15/2022 6:00:38 PM	68806
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/15/2022 6:00:38 PM	68806
Surr: DNOP	60.6	51.1-141		%Rec	1	7/15/2022 6:00:38 PM	68806
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	7/15/2022 10:28:54 PM	G89514
Surr: BFB	99.5	37.7-212		%Rec	1	7/15/2022 10:28:54 PM	G89514
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	7/15/2022 10:28:54 PM	B89514
Toluene	ND	0.035		mg/Kg	1	7/15/2022 10:28:54 PM	B89514
Ethylbenzene	ND	0.035		mg/Kg	1	7/15/2022 10:28:54 PM	B89514
Xylenes, Total	ND	0.071		mg/Kg	1	7/15/2022 10:28:54 PM	B89514
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/15/2022 10:28:54 PM	B89514

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207733**
Date Reported: **7/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EW-5B
Project: Roy SWD 3 **Collection Date:** 7/12/2022 8:44:00 AM
Lab ID: 2207733-005 **Matrix:** MEOH (SOIL) **Received Date:** 7/15/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	7/16/2022 4:36:23 PM	68826
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/15/2022 6:14:56 PM	68806
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/15/2022 6:14:56 PM	68806
Surr: DNOP	59.8	51.1-141		%Rec	1	7/15/2022 6:14:56 PM	68806
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg	1	7/15/2022 11:39:50 PM	G89514
Surr: BFB	97.7	37.7-212		%Rec	1	7/15/2022 11:39:50 PM	G89514
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.027		mg/Kg	1	7/15/2022 11:39:50 PM	B89514
Toluene	ND	0.055		mg/Kg	1	7/15/2022 11:39:50 PM	B89514
Ethylbenzene	ND	0.055		mg/Kg	1	7/15/2022 11:39:50 PM	B89514
Xylenes, Total	ND	0.11		mg/Kg	1	7/15/2022 11:39:50 PM	B89514
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/15/2022 11:39:50 PM	B89514

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207733**
Date Reported: **7/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EW-6B
Project: Roy SWD 3 **Collection Date:** 7/12/2022 8:47:00 AM
Lab ID: 2207733-006 **Matrix:** MEOH (SOIL) **Received Date:** 7/15/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	7/16/2022 4:48:44 PM	68826
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 6:29:47 PM	68806
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/15/2022 6:29:47 PM	68806
Surr: DNOP	53.1	51.1-141		%Rec	1	7/15/2022 6:29:47 PM	68806
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	7/16/2022 12:03:30 AM	G89514
Surr: BFB	95.1	37.7-212		%Rec	1	7/16/2022 12:03:30 AM	G89514
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	7/16/2022 12:03:30 AM	B89514
Toluene	ND	0.039		mg/Kg	1	7/16/2022 12:03:30 AM	B89514
Ethylbenzene	ND	0.039		mg/Kg	1	7/16/2022 12:03:30 AM	B89514
Xylenes, Total	ND	0.079		mg/Kg	1	7/16/2022 12:03:30 AM	B89514
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/16/2022 12:03:30 AM	B89514

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207733**
Date Reported: **7/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EW-6B.1
Project: Roy SWD 3 **Collection Date:** 7/12/2022 8:50:00 AM
Lab ID: 2207733-007 **Matrix:** MEOH (SOIL) **Received Date:** 7/15/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	7/16/2022 5:01:05 PM	68826
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 6:44:10 PM	68806
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2022 6:44:10 PM	68806
Surr: DNOP	58.7	51.1-141		%Rec	1	7/15/2022 6:44:10 PM	68806
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	7/16/2022 12:27:07 AM	G89514
Surr: BFB	98.3	37.7-212		%Rec	1	7/16/2022 12:27:07 AM	G89514
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	7/16/2022 12:27:07 AM	B89514
Toluene	ND	0.036		mg/Kg	1	7/16/2022 12:27:07 AM	B89514
Ethylbenzene	ND	0.036		mg/Kg	1	7/16/2022 12:27:07 AM	B89514
Xylenes, Total	ND	0.073		mg/Kg	1	7/16/2022 12:27:07 AM	B89514
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/16/2022 12:27:07 AM	B89514

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207733**
Date Reported: **7/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EX-1A
Project: Roy SWD 3 **Collection Date:** 7/12/2022 9:38:00 AM
Lab ID: 2207733-008 **Matrix:** MEOH (SOIL) **Received Date:** 7/15/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	500	60		mg/Kg	20	7/16/2022 5:13:27 PM	68826
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/15/2022 6:58:30 PM	68806
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/15/2022 6:58:30 PM	68806
Surr: DNOP	53.8	51.1-141		%Rec	1	7/15/2022 6:58:30 PM	68806
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	7/16/2022 12:50:42 AM	G89514
Surr: BFB	101	37.7-212		%Rec	1	7/16/2022 12:50:42 AM	G89514
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	7/16/2022 12:50:42 AM	B89514
Toluene	ND	0.043		mg/Kg	1	7/16/2022 12:50:42 AM	B89514
Ethylbenzene	ND	0.043		mg/Kg	1	7/16/2022 12:50:42 AM	B89514
Xylenes, Total	ND	0.085		mg/Kg	1	7/16/2022 12:50:42 AM	B89514
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/16/2022 12:50:42 AM	B89514

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207733**
Date Reported: **7/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EX-2A
Project: Roy SWD 3 **Collection Date:** 7/12/2022 9:40:00 AM
Lab ID: 2207733-009 **Matrix:** MEOH (SOIL) **Received Date:** 7/15/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	540	60		mg/Kg	20	7/16/2022 5:25:48 PM	68826
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/15/2022 7:12:56 PM	68806
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/15/2022 7:12:56 PM	68806
Surr: DNOP	57.0	51.1-141		%Rec	1	7/15/2022 7:12:56 PM	68806
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/16/2022 1:14:15 AM	G89514
Surr: BFB	97.9	37.7-212		%Rec	1	7/16/2022 1:14:15 AM	G89514
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/16/2022 1:14:15 AM	B89514
Toluene	ND	0.046		mg/Kg	1	7/16/2022 1:14:15 AM	B89514
Ethylbenzene	ND	0.046		mg/Kg	1	7/16/2022 1:14:15 AM	B89514
Xylenes, Total	ND	0.091		mg/Kg	1	7/16/2022 1:14:15 AM	B89514
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/16/2022 1:14:15 AM	B89514

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207733**

20-Jul-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-68826**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **68826**	RunNo: **89565**
Prep Date: **7/16/2022**	Analysis Date: **7/16/2022**	SeqNo: **3188064** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-68826**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **68826**	RunNo: **89565**
Prep Date: **7/16/2022**	Analysis Date: **7/16/2022**	SeqNo: **3188065** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.1	90	110			

Sample ID: **MB-68858**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **68858**	RunNo: **89579**
Prep Date: **7/18/2022**	Analysis Date: **7/18/2022**	SeqNo: **3189299** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-68858**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **68858**	RunNo: **89579**
Prep Date: **7/18/2022**	Analysis Date: **7/18/2022**	SeqNo: **3189300** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.9	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207733**

20-Jul-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-68806**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **68806**	RunNo: **89525**
Prep Date: **7/15/2022**	Analysis Date: **7/15/2022**	SeqNo: **3188305** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.2		10.00		82.2	51.1	141			

Sample ID: **LCS-68806**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **68806**	RunNo: **89525**
Prep Date: **7/15/2022**	Analysis Date: **7/15/2022**	SeqNo: **3188306** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	15	50.00	0	79.9	64.4	127			
Surr: DNOP	3.8		5.000		76.5	51.1	141			

Sample ID: **MB-68824**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **68824**	RunNo: **89573**
Prep Date: **7/16/2022**	Analysis Date: **7/18/2022**	SeqNo: **3188608** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	5.8		10.00		57.8	51.1	141			

Sample ID: **LCS-68824**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **68824**	RunNo: **89573**
Prep Date: **7/16/2022**	Analysis Date: **7/18/2022**	SeqNo: **3188609** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.8	64.4	127			
Surr: DNOP	3.0		5.000		59.5	51.1	141			

Sample ID: **MB-68825**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **68825**	RunNo: **89573**
Prep Date: **7/16/2022**	Analysis Date: **7/18/2022**	SeqNo: **3189637** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.3		10.00		72.6	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207733**

20-Jul-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-68825**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **68825**	RunNo: **89573**
Prep Date: **7/16/2022**	Analysis Date: **7/18/2022**	SeqNo: **3189638** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		73.3	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207733**

20-Jul-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb-68789**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **68789**	RunNo: **89514**							
Prep Date: **7/14/2022**	Analysis Date: **7/15/2022**	SeqNo: **3187143**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.8	37.7	212			

Sample ID: **lcs-68789**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **68789**	RunNo: **89514**							
Prep Date: **7/14/2022**	Analysis Date: **7/15/2022**	SeqNo: **3187144**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.3	72.3	137			
Surr: BFB	2000		1000		197	37.7	212			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G89514**	RunNo: **89514**							
Prep Date:	Analysis Date: **7/15/2022**	SeqNo: **3187167**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **G89514**	RunNo: **89514**							
Prep Date:	Analysis Date: **7/15/2022**	SeqNo: **3187168**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2000		1000		201	37.7	212			

Sample ID: **lcs-68813**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **68813**	RunNo: **89553**							
Prep Date: **7/15/2022**	Analysis Date: **7/18/2022**	SeqNo: **3187638**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.9	72.3	137			
Surr: BFB	1900		1000		187	37.7	212			

Sample ID: **mb-68813**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **68813**	RunNo: **89553**							
Prep Date: **7/15/2022**	Analysis Date: **7/18/2022**	SeqNo: **3187639**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2207733**
20-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: **mb-68813**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **68813**	RunNo: **89553**
Prep Date: **7/15/2022**	Analysis Date: **7/18/2022**	SeqNo: **3187639** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		86.7	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207733**

20-Jul-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb-68789**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68789**	RunNo: **89514**
Prep Date: **7/14/2022**	Analysis Date: **7/15/2022**	SeqNo: **3187219** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: **LCS-68789**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68789**	RunNo: **89514**
Prep Date: **7/14/2022**	Analysis Date: **7/15/2022**	SeqNo: **3187220** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.1	0.050	1.000	0	105	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B89514**	RunNo: **89514**
Prep Date:	Analysis Date: **7/15/2022**	SeqNo: **3187242** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B89514**	RunNo: **89514**
Prep Date:	Analysis Date: **7/15/2022**	SeqNo: **3187243** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207733**

20-Jul-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-68813**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68813**	RunNo: **89553**
Prep Date: **7/15/2022**	Analysis Date: **7/18/2022**	SeqNo: **3187642** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.7	80	120			
Toluene	0.90	0.050	1.000	0	90.3	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.5	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.1	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		84.6	70	130			

Sample ID: **mb-68813**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68813**	RunNo: **89553**
Prep Date: **7/15/2022**	Analysis Date: **7/18/2022**	SeqNo: **3187643** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG Work Order Number: 2207733 RcptNo: 1

Received By: Juan Rojas 7/15/2022 7:45:00 AM

Completed By: Sean Livingston 7/15/2022 8:27:44 AM

Reviewed By: KPA 7.15.22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JM 7/15/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good				

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** ~~EAG 5 DAY TAT~~ 24 HR Rush

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KIERDORF

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.7-0=1.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2207733	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
7/13/22	0800	SOIL	PW-1D	1x 4oz JAR	ICE	001	X	X	X
	0834		EX-4B			002			
	0837		EX-4T			003			
	0840		EX-4B			004			
	0844		EW-5B			005			
	0847		EW-6B			006			
	0850		EW-6B-1			007			
	0938		EX-1A			008			
	0940		EX-2A			009			
~~7/13~~	~~8:29~~		~~PT 4/0~~			~~010~~			
~~7/13~~	~~8:53~~		~~PT 4/4~~			~~011~~			
			PT Sample bottle in 7/15/22			SUB 7/15/22			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/14/22	0615					
7/14/22	1900			courier	7/15/22	7:45

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Received by OCD: 6/19/2025 8:41:42 AM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 09, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2207F09

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 8 sample(s) on 7/29/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued August 05, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2207F09**
Date Reported: **8/9/2022**

CLIENT: EOG
Client Sample ID: EX-33A
Project: Roy SWD 3
Collection Date: 7/26/2022 2:09:00 PM
Lab ID: 2207F09-001 **Matrix:** SOIL **Received Date:** 7/29/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	710	60		mg/Kg	20	8/2/2022 8:44:17 PM	69209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/3/2022 1:52:30 AM	69190
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/3/2022 1:52:30 AM	69190
Surr: DNOP	73.2	21-129		%Rec	1	8/3/2022 1:52:30 AM	69190
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/2/2022 1:04:50 AM	69167
Surr: BFB	99.5	37.7-212		%Rec	1	8/2/2022 1:04:50 AM	69167
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	8/2/2022 1:04:50 AM	69167
Toluene	ND	0.048		mg/Kg	1	8/2/2022 1:04:50 AM	69167
Ethylbenzene	ND	0.048		mg/Kg	1	8/2/2022 1:04:50 AM	69167
Xylenes, Total	ND	0.095		mg/Kg	1	8/2/2022 1:04:50 AM	69167
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	8/2/2022 1:04:50 AM	69167

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F09**
Date Reported: **8/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-35A
Project: Roy SWD 3
Collection Date: 7/26/2022 12:53:00 PM
Lab ID: 2207F09-002 **Matrix:** SOIL **Received Date:** 7/29/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	560	60		mg/Kg	20	8/2/2022 8:56:37 PM	69209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/3/2022 2:17:01 AM	69190
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/3/2022 2:17:01 AM	69190
Surr: DNOP	78.0	21-129		%Rec	1	8/3/2022 2:17:01 AM	69190
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/2/2022 1:28:21 AM	69167
Surr: BFB	92.9	37.7-212		%Rec	1	8/2/2022 1:28:21 AM	69167
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	8/2/2022 1:28:21 AM	69167
Toluene	ND	0.046		mg/Kg	1	8/2/2022 1:28:21 AM	69167
Ethylbenzene	ND	0.046		mg/Kg	1	8/2/2022 1:28:21 AM	69167
Xylenes, Total	ND	0.093		mg/Kg	1	8/2/2022 1:28:21 AM	69167
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	8/2/2022 1:28:21 AM	69167

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F09**
Date Reported: **8/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-37A
Project: Roy SWD 3
Collection Date: 7/26/2022 1:20:00 PM
Lab ID: 2207F09-003 **Matrix:** SOIL **Received Date:** 7/29/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	110	60		mg/Kg	20	8/2/2022 9:58:23 PM	69209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	8/3/2022 2:41:42 AM	69190
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/3/2022 2:41:42 AM	69190
Surr: DNOP	90.6	21-129		%Rec	1	8/3/2022 2:41:42 AM	69190
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/2/2022 1:51:54 AM	69167
Surr: BFB	95.8	37.7-212		%Rec	1	8/2/2022 1:51:54 AM	69167
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	8/2/2022 1:51:54 AM	69167
Toluene	ND	0.049		mg/Kg	1	8/2/2022 1:51:54 AM	69167
Ethylbenzene	ND	0.049		mg/Kg	1	8/2/2022 1:51:54 AM	69167
Xylenes, Total	ND	0.098		mg/Kg	1	8/2/2022 1:51:54 AM	69167
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	8/2/2022 1:51:54 AM	69167

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F09**
Date Reported: **8/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-28B
Project: Roy SWD 3
Collection Date: 7/26/2022 2:15:00 PM
Lab ID: 2207F09-004 **Matrix:** SOIL **Received Date:** 7/29/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	190	60		mg/Kg	20	8/2/2022 10:10:45 PM	69209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/3/2022 3:06:07 AM	69190
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/3/2022 3:06:07 AM	69190
Surr: DNOP	64.8	21-129		%Rec	1	8/3/2022 3:06:07 AM	69190
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/2/2022 2:15:26 AM	69167
Surr: BFB	96.0	37.7-212		%Rec	1	8/2/2022 2:15:26 AM	69167
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	8/2/2022 2:15:26 AM	69167
Toluene	ND	0.050		mg/Kg	1	8/2/2022 2:15:26 AM	69167
Ethylbenzene	ND	0.050		mg/Kg	1	8/2/2022 2:15:26 AM	69167
Xylenes, Total	ND	0.099		mg/Kg	1	8/2/2022 2:15:26 AM	69167
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	8/2/2022 2:15:26 AM	69167

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F09**
Date Reported: **8/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-18A
Project: Roy SWD 3
Collection Date: 7/26/2022 2:17:00 PM
Lab ID: 2207F09-005 **Matrix:** SOIL **Received Date:** 7/29/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	130	61		mg/Kg	20	8/2/2022 10:23:06 PM	69209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/2/2022 1:51:23 PM	69180
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/2/2022 1:51:23 PM	69180
Surr: DNOP	61.6	21-129		%Rec	1	8/2/2022 1:51:23 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/1/2022 10:20:00 AM	69171
Surr: BFB	94.8	37.7-212		%Rec	1	8/1/2022 10:20:00 AM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 10:20:00 AM	69171
Toluene	ND	0.049		mg/Kg	1	8/1/2022 10:20:00 AM	69171
Ethylbenzene	ND	0.049		mg/Kg	1	8/1/2022 10:20:00 AM	69171
Xylenes, Total	ND	0.099		mg/Kg	1	8/1/2022 10:20:00 AM	69171
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	8/1/2022 10:20:00 AM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F09**
Date Reported: **8/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-19A
Project: Roy SWD 3
Collection Date: 7/26/2022 2:28:00 PM
Lab ID: 2207F09-006 **Matrix:** SOIL **Received Date:** 7/29/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	150	60		mg/Kg	20	8/2/2022 10:35:26 PM	69209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/2/2022 2:33:19 PM	69180
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/2/2022 2:33:19 PM	69180
Surr: DNOP	65.5	21-129		%Rec	1	8/2/2022 2:33:19 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/1/2022 11:20:00 AM	69171
Surr: BFB	97.8	37.7-212		%Rec	1	8/1/2022 11:20:00 AM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 11:20:00 AM	69171
Toluene	ND	0.050		mg/Kg	1	8/1/2022 11:20:00 AM	69171
Ethylbenzene	ND	0.050		mg/Kg	1	8/1/2022 11:20:00 AM	69171
Xylenes, Total	ND	0.099		mg/Kg	1	8/1/2022 11:20:00 AM	69171
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	8/1/2022 11:20:00 AM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F09**
Date Reported: **8/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-34A
Project: Roy SWD 3
Collection Date: 7/26/2022 3:07:00 PM
Lab ID: 2207F09-007
Matrix: SOIL
Received Date: 7/29/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	690	60		mg/Kg	20	8/2/2022 10:47:46 PM	69209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/2/2022 5:19:54 PM	69180
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/2/2022 5:19:54 PM	69180
Surr: DNOP	76.0	21-129		%Rec	1	8/2/2022 5:19:54 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/1/2022 12:19:00 PM	69171
Surr: BFB	96.5	37.7-212		%Rec	1	8/1/2022 12:19:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	8/1/2022 12:19:00 PM	69171
Toluene	ND	0.048		mg/Kg	1	8/1/2022 12:19:00 PM	69171
Ethylbenzene	ND	0.048		mg/Kg	1	8/1/2022 12:19:00 PM	69171
Xylenes, Total	ND	0.096		mg/Kg	1	8/1/2022 12:19:00 PM	69171
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	8/1/2022 12:19:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F09**
Date Reported: **8/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-47A
Project: Roy SWD 3
Collection Date: 7/26/2022 3:48:00 PM
Lab ID: 2207F09-008 **Matrix:** SOIL **Received Date:** 7/29/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	600	60		mg/Kg	20	8/2/2022 11:00:07 PM	69209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/2/2022 5:33:41 PM	69180
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/2/2022 5:33:41 PM	69180
Surr: DNOP	81.2	21-129		%Rec	1	8/2/2022 5:33:41 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/1/2022 12:38:00 PM	69171
Surr: BFB	96.3	37.7-212		%Rec	1	8/1/2022 12:38:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 12:38:00 PM	69171
Toluene	ND	0.050		mg/Kg	1	8/1/2022 12:38:00 PM	69171
Ethylbenzene	ND	0.050		mg/Kg	1	8/1/2022 12:38:00 PM	69171
Xylenes, Total	ND	0.10		mg/Kg	1	8/1/2022 12:38:00 PM	69171
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	8/1/2022 12:38:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207F09**

09-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID:	**MB-69209**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**69209**	RunNo:	**89954**					
Prep Date:	**8/2/2022**	Analysis Date:	**8/2/2022**	SeqNo:	**3206565**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-69209**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**69209**	RunNo:	**89954**					
Prep Date:	**8/2/2022**	Analysis Date:	**8/2/2022**	SeqNo:	**3206566**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207F09**

09-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-69189**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69189**	RunNo: **89947**
Prep Date: **8/1/2022**	Analysis Date: **8/2/2022**	SeqNo: **3205570** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		132	21	129			S

Sample ID: **LCS-69189**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69189**	RunNo: **89947**
Prep Date: **8/1/2022**	Analysis Date: **8/2/2022**	SeqNo: **3205571** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		5.000		117	21	129			

Sample ID: **MB-69180**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69180**	RunNo: **89947**
Prep Date: **8/1/2022**	Analysis Date: **8/2/2022**	SeqNo: **3205580** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.0	21	129			

Sample ID: **LCS-69180**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69180**	RunNo: **89947**
Prep Date: **8/1/2022**	Analysis Date: **8/2/2022**	SeqNo: **3205581** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15	50.00	0	101	64.4	127			
Surr: DNOP	3.6		5.000		71.3	21	129			

Sample ID: **LCS-69190**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69190**	RunNo: **89958**
Prep Date: **8/1/2022**	Analysis Date: **8/2/2022**	SeqNo: **3206471** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	15	50.00	0	92.5	64.4	127			
Surr: DNOP	4.8		5.000		95.3	21	129			

Sample ID: **MB-69190**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69190**	RunNo: **89958**
Prep Date: **8/1/2022**	Analysis Date: **8/2/2022**	SeqNo: **3206472** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2207F09**
09-Aug-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-69190**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69190**	RunNo: **89958**
Prep Date: **8/1/2022**	Analysis Date: **8/2/2022**	SeqNo: **3206472** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207F09**

09-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb-69167**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **69167**	RunNo: **89924**							
Prep Date: **7/29/2022**	Analysis Date: **8/1/2022**	SeqNo: **3203746**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	37.7	212			

Sample ID: **lcs-69167**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **69167**	RunNo: **89924**							
Prep Date: **7/29/2022**	Analysis Date: **8/1/2022**	SeqNo: **3203747**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	72.3	137			
Surr: BFB	2000		1000		203	37.7	212			

Sample ID: **lcs-69171**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **69171**	RunNo: **89940**							
Prep Date: **7/31/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204369**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	72.3	137			
Surr: BFB	2100		1000		213	37.7	212			S

Sample ID: **mb-69171**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **69171**	RunNo: **89940**							
Prep Date: **7/31/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204370**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.3	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207F09**

09-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb-69167**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **69167**	RunNo: **89924**
Prep Date: **7/29/2022**	Analysis Date: **8/1/2022**	SeqNo: **3203780** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

Sample ID: **LCS-69167**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **69167**	RunNo: **89924**
Prep Date: **7/29/2022**	Analysis Date: **8/1/2022**	SeqNo: **3203781** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.97	0.050	1.000	0	96.9	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	70	130			

Sample ID: **lcs-69171**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **69171**	RunNo: **89940**
Prep Date: **7/31/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204422** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.5	80	120			
Toluene	0.92	0.050	1.000	0	92.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.3	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	70	130			

Sample ID: **mb-69171**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **69171**	RunNo: **89940**
Prep Date: **7/31/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204423** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2207F09 | RcptNo: 1

Received By: Juan Rojas 7/28/2022 7:20:00 AM

Completed By: Cheyenne Cason 7/29/2022 8:14:45 AM

Reviewed By: CMC 7/29/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: JM 7/29/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good	Not Present			

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 5-day TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy & J. Martinez

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 3.3+0.2=3.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2207F09	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
7/28/22	1409	Soil	Ex-33A	1x4oz Tar	ICE	001	X	X	X
	1253		Ex-35A			002			
	1320		Ex-37A			003			
	1415		Ex-28B			004			
	1417		EW-18A			005			
	1428		EW-19A			006			
	1507		Ex-34A			007			
	1548		Ex-47A			008			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/28/22	2030	W. Kennedy			7/28/22	730
7/29/22	0100			courier	7/29/22	7:20

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 05, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2207F69

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 23 sample(s) on 7/30/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

CLIENT: EOG
Client Sample ID: S-1
Project: Roy SWD 3
Collection Date: 7/28/2022 2:45:00 PM
Lab ID: 2207F69-001 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	420	60		mg/Kg	20	8/2/2022 11:12:28 PM	69209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/2/2022 5:47:35 PM	69180
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/2/2022 5:47:35 PM	69180
Surr: DNOP	50.9	21-129		%Rec	1	8/2/2022 5:47:35 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/1/2022 12:58:00 PM	69171
Surr: BFB	93.7	37.7-212		%Rec	1	8/1/2022 12:58:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 12:58:00 PM	69171
Toluene	ND	0.049		mg/Kg	1	8/1/2022 12:58:00 PM	69171
Ethylbenzene	ND	0.049		mg/Kg	1	8/1/2022 12:58:00 PM	69171
Xylenes, Total	ND	0.099		mg/Kg	1	8/1/2022 12:58:00 PM	69171
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	8/1/2022 12:58:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-2
Project: Roy SWD 3
Collection Date: 7/28/2022 2:47:00 PM
Lab ID: 2207F69-002 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	620	59		mg/Kg	20	8/2/2022 11:24:50 PM	69209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/2/2022 6:01:33 PM	69180
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/2/2022 6:01:33 PM	69180
Surr: DNOP	83.8	21-129		%Rec	1	8/2/2022 6:01:33 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/1/2022 1:18:00 PM	69171
Surr: BFB	96.3	37.7-212		%Rec	1	8/1/2022 1:18:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	8/1/2022 1:18:00 PM	69171
Toluene	ND	0.048		mg/Kg	1	8/1/2022 1:18:00 PM	69171
Ethylbenzene	ND	0.048		mg/Kg	1	8/1/2022 1:18:00 PM	69171
Xylenes, Total	ND	0.096		mg/Kg	1	8/1/2022 1:18:00 PM	69171
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	8/1/2022 1:18:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-3
Project: Roy SWD 3
Collection Date: 7/28/2022 2:49:00 PM
Lab ID: 2207F69-003 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	340	60		mg/Kg	20	8/3/2022 10:10:36 AM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/2/2022 6:15:24 PM	69180
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/2/2022 6:15:24 PM	69180
Surr: DNOP	54.1	21-129		%Rec	1	8/2/2022 6:15:24 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/1/2022 1:38:00 PM	69171
Surr: BFB	95.6	37.7-212		%Rec	1	8/1/2022 1:38:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	8/1/2022 1:38:00 PM	69171
Toluene	ND	0.049		mg/Kg	1	8/1/2022 1:38:00 PM	69171
Ethylbenzene	ND	0.049		mg/Kg	1	8/1/2022 1:38:00 PM	69171
Xylenes, Total	ND	0.097		mg/Kg	1	8/1/2022 1:38:00 PM	69171
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	8/1/2022 1:38:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-4
Project: Roy SWD 3
Collection Date: 7/28/2022 2:51:00 PM
Lab ID: 2207F69-004
Matrix: SOIL
Received Date: 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	350	60		mg/Kg	20	8/3/2022 10:22:56 AM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/2/2022 6:29:21 PM	69180
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/2/2022 6:29:21 PM	69180
Surr: DNOP	53.4	21-129		%Rec	1	8/2/2022 6:29:21 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/1/2022 1:58:00 PM	69171
Surr: BFB	95.5	37.7-212		%Rec	1	8/1/2022 1:58:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	8/1/2022 1:58:00 PM	69171
Toluene	ND	0.048		mg/Kg	1	8/1/2022 1:58:00 PM	69171
Ethylbenzene	ND	0.048		mg/Kg	1	8/1/2022 1:58:00 PM	69171
Xylenes, Total	ND	0.097		mg/Kg	1	8/1/2022 1:58:00 PM	69171
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	8/1/2022 1:58:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-5
Project: Roy SWD 3
Collection Date: 7/28/2022 2:53:00 PM
Lab ID: 2207F69-005 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	600	60		mg/Kg	20	8/3/2022 10:35:17 AM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/2/2022 6:43:15 PM	69180
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/2/2022 6:43:15 PM	69180
Surr: DNOP	72.8	21-129		%Rec	1	8/2/2022 6:43:15 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/1/2022 2:18:00 PM	69171
Surr: BFB	101	37.7-212		%Rec	1	8/1/2022 2:18:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	8/1/2022 2:18:00 PM	69171
Toluene	ND	0.049		mg/Kg	1	8/1/2022 2:18:00 PM	69171
Ethylbenzene	ND	0.049		mg/Kg	1	8/1/2022 2:18:00 PM	69171
Xylenes, Total	ND	0.097		mg/Kg	1	8/1/2022 2:18:00 PM	69171
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	8/1/2022 2:18:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-6
Project: Roy SWD 3
Collection Date: 7/28/2022 2:55:00 PM
Lab ID: 2207F69-006
Matrix: SOIL
Received Date: 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	630	60		mg/Kg	20	8/3/2022 10:47:39 AM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/2/2022 6:57:06 PM	69180
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/2/2022 6:57:06 PM	69180
Surr: DNOP	65.0	21-129		%Rec	1	8/2/2022 6:57:06 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/1/2022 2:38:00 PM	69171
Surr: BFB	98.0	37.7-212		%Rec	1	8/1/2022 2:38:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	8/1/2022 2:38:00 PM	69171
Toluene	ND	0.048		mg/Kg	1	8/1/2022 2:38:00 PM	69171
Ethylbenzene	ND	0.048		mg/Kg	1	8/1/2022 2:38:00 PM	69171
Xylenes, Total	ND	0.096		mg/Kg	1	8/1/2022 2:38:00 PM	69171
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	8/1/2022 2:38:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

CLIENT: EOG
Client Sample ID: S-7
Project: Roy SWD 3
Collection Date: 7/28/2022 2:57:00 PM
Lab ID: 2207F69-007 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	350	60		mg/Kg	20	8/3/2022 11:00:00 AM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/2/2022 7:11:01 PM	69180
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/2/2022 7:11:01 PM	69180
Surr: DNOP	62.1	21-129		%Rec	1	8/2/2022 7:11:01 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/1/2022 3:17:00 PM	69171
Surr: BFB	94.6	37.7-212		%Rec	1	8/1/2022 3:17:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 3:17:00 PM	69171
Toluene	ND	0.049		mg/Kg	1	8/1/2022 3:17:00 PM	69171
Ethylbenzene	ND	0.049		mg/Kg	1	8/1/2022 3:17:00 PM	69171
Xylenes, Total	ND	0.099		mg/Kg	1	8/1/2022 3:17:00 PM	69171
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	1	8/1/2022 3:17:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-8
Project: Roy SWD 3
Collection Date: 7/28/2022 2:59:00 PM
Lab ID: 2207F69-008
Matrix: SOIL
Received Date: 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	320	60		mg/Kg	20	8/3/2022 11:12:20 AM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/2/2022 7:25:03 PM	69180
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/2/2022 7:25:03 PM	69180
Surr: DNOP	59.2	21-129		%Rec	1	8/2/2022 7:25:03 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/1/2022 3:37:00 PM	69171
Surr: BFB	96.6	37.7-212		%Rec	1	8/1/2022 3:37:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	8/1/2022 3:37:00 PM	69171
Toluene	ND	0.049		mg/Kg	1	8/1/2022 3:37:00 PM	69171
Ethylbenzene	ND	0.049		mg/Kg	1	8/1/2022 3:37:00 PM	69171
Xylenes, Total	ND	0.098		mg/Kg	1	8/1/2022 3:37:00 PM	69171
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	8/1/2022 3:37:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-9
Project: Roy SWD 3
Collection Date: 7/28/2022 3:01:00 PM
Lab ID: 2207F69-009
Matrix: SOIL
Received Date: 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	370	60		mg/Kg	20	8/3/2022 11:24:40 AM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/2/2022 7:39:05 PM	69180
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/2/2022 7:39:05 PM	69180
Surr: DNOP	49.2	21-129		%Rec	1	8/2/2022 7:39:05 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/1/2022 3:57:00 PM	69171
Surr: BFB	92.6	37.7-212		%Rec	1	8/1/2022 3:57:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 3:57:00 PM	69171
Toluene	ND	0.050		mg/Kg	1	8/1/2022 3:57:00 PM	69171
Ethylbenzene	ND	0.050		mg/Kg	1	8/1/2022 3:57:00 PM	69171
Xylenes, Total	ND	0.099		mg/Kg	1	8/1/2022 3:57:00 PM	69171
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	8/1/2022 3:57:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-10
Project: Roy SWD 3
Collection Date: 7/28/2022 3:03:00 PM
Lab ID: 2207F69-010
Matrix: SOIL
Received Date: 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	620	60		mg/Kg	20	8/3/2022 11:37:00 AM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/2/2022 7:52:59 PM	69180
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/2/2022 7:52:59 PM	69180
Surr: DNOP	54.2	21-129		%Rec	1	8/2/2022 7:52:59 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/1/2022 4:17:00 PM	69171
Surr: BFB	95.1	37.7-212		%Rec	1	8/1/2022 4:17:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 4:17:00 PM	69171
Toluene	ND	0.050		mg/Kg	1	8/1/2022 4:17:00 PM	69171
Ethylbenzene	ND	0.050		mg/Kg	1	8/1/2022 4:17:00 PM	69171
Xylenes, Total	ND	0.10		mg/Kg	1	8/1/2022 4:17:00 PM	69171
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	8/1/2022 4:17:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-11
Project: Roy SWD 3
Collection Date: 7/28/2022 3:05:00 PM
Lab ID: 2207F69-011 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	520	60		mg/Kg	20	8/3/2022 12:14:03 PM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/2/2022 8:06:54 PM	69180
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/2/2022 8:06:54 PM	69180
Surr: DNOP	58.8	21-129		%Rec	1	8/2/2022 8:06:54 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/1/2022 4:37:00 PM	69171
Surr: BFB	93.8	37.7-212		%Rec	1	8/1/2022 4:37:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 4:37:00 PM	69171
Toluene	ND	0.050		mg/Kg	1	8/1/2022 4:37:00 PM	69171
Ethylbenzene	ND	0.050		mg/Kg	1	8/1/2022 4:37:00 PM	69171
Xylenes, Total	ND	0.10		mg/Kg	1	8/1/2022 4:37:00 PM	69171
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	8/1/2022 4:37:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-12
Project: Roy SWD 3
Collection Date: 7/28/2022 3:07:00 PM
Lab ID: 2207F69-012 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	130	60		mg/Kg	20	8/3/2022 12:26:23 PM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/2/2022 8:20:49 PM	69180
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/2/2022 8:20:49 PM	69180
Surr: DNOP	42.0	21-129		%Rec	1	8/2/2022 8:20:49 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/1/2022 4:57:00 PM	69171
Surr: BFB	97.0	37.7-212		%Rec	1	8/1/2022 4:57:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	8/1/2022 4:57:00 PM	69171
Toluene	ND	0.049		mg/Kg	1	8/1/2022 4:57:00 PM	69171
Ethylbenzene	ND	0.049		mg/Kg	1	8/1/2022 4:57:00 PM	69171
Xylenes, Total	ND	0.097		mg/Kg	1	8/1/2022 4:57:00 PM	69171
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	8/1/2022 4:57:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-13
Project: Roy SWD 3
Collection Date: 7/28/2022 3:09:00 PM
Lab ID: 2207F69-013 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	300	60		mg/Kg	20	8/3/2022 12:38:44 PM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/2/2022 8:34:47 PM	69180
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/2/2022 8:34:47 PM	69180
Surr: DNOP	40.6	21-129		%Rec	1	8/2/2022 8:34:47 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/1/2022 5:16:00 PM	69171
Surr: BFB	95.3	37.7-212		%Rec	1	8/1/2022 5:16:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 5:16:00 PM	69171
Toluene	ND	0.050		mg/Kg	1	8/1/2022 5:16:00 PM	69171
Ethylbenzene	ND	0.050		mg/Kg	1	8/1/2022 5:16:00 PM	69171
Xylenes, Total	ND	0.10		mg/Kg	1	8/1/2022 5:16:00 PM	69171
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	8/1/2022 5:16:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-14
Project: Roy SWD 3
Collection Date: 7/28/2022 3:10:00 PM
Lab ID: 2207F69-014
Matrix: SOIL
Received Date: 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	350	60		mg/Kg	20	8/3/2022 12:51:05 PM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/2/2022 8:48:31 PM	69180
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/2/2022 8:48:31 PM	69180
Surr: DNOP	51.7	21-129		%Rec	1	8/2/2022 8:48:31 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/1/2022 5:36:00 PM	69171
Surr: BFB	95.2	37.7-212		%Rec	1	8/1/2022 5:36:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 5:36:00 PM	69171
Toluene	ND	0.049		mg/Kg	1	8/1/2022 5:36:00 PM	69171
Ethylbenzene	ND	0.049		mg/Kg	1	8/1/2022 5:36:00 PM	69171
Xylenes, Total	ND	0.098		mg/Kg	1	8/1/2022 5:36:00 PM	69171
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	8/1/2022 5:36:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-15
Project: Roy SWD 3
Collection Date: 7/28/2022 3:12:00 PM
Lab ID: 2207F69-015 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	420	60		mg/Kg	20	8/3/2022 1:03:25 PM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/2/2022 9:02:14 PM	69180
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/2/2022 9:02:14 PM	69180
Surr: DNOP	42.9	21-129		%Rec	1	8/2/2022 9:02:14 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/1/2022 5:56:00 PM	69171
Surr: BFB	95.6	37.7-212		%Rec	1	8/1/2022 5:56:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	8/1/2022 5:56:00 PM	69171
Toluene	ND	0.049		mg/Kg	1	8/1/2022 5:56:00 PM	69171
Ethylbenzene	ND	0.049		mg/Kg	1	8/1/2022 5:56:00 PM	69171
Xylenes, Total	ND	0.098		mg/Kg	1	8/1/2022 5:56:00 PM	69171
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	8/1/2022 5:56:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-16
Project: Roy SWD 3
Collection Date: 7/28/2022 3:14:00 PM
Lab ID: 2207F69-016
Matrix: SOIL
Received Date: 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	360	60		mg/Kg	20	8/3/2022 1:15:46 PM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/2/2022 9:15:56 PM	69180
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/2/2022 9:15:56 PM	69180
Surr: DNOP	50.6	21-129		%Rec	1	8/2/2022 9:15:56 PM	69180
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/1/2022 6:16:00 PM	69171
Surr: BFB	94.2	37.7-212		%Rec	1	8/1/2022 6:16:00 PM	69171
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 6:16:00 PM	69171
Toluene	ND	0.050		mg/Kg	1	8/1/2022 6:16:00 PM	69171
Ethylbenzene	ND	0.050		mg/Kg	1	8/1/2022 6:16:00 PM	69171
Xylenes, Total	ND	0.099		mg/Kg	1	8/1/2022 6:16:00 PM	69171
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	8/1/2022 6:16:00 PM	69171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SW-1
Project: Roy SWD 3
Collection Date: 7/28/2022 3:16:00 PM
Lab ID: 2207F69-017
Matrix: SOIL
Received Date: 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	8/2/2022 9:37:33 AM	69186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	8/2/2022 9:29:47 PM	69181
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	8/2/2022 9:29:47 PM	69181
Surr: DNOP	38.9	21-129		%Rec	1	8/2/2022 9:29:47 PM	69181
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/1/2022 8:14:00 PM	69172
Surr: BFB	91.0	37.7-212		%Rec	1	8/1/2022 8:14:00 PM	69172
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	8/1/2022 8:14:00 PM	69172
Toluene	ND	0.048		mg/Kg	1	8/1/2022 8:14:00 PM	69172
Ethylbenzene	ND	0.048		mg/Kg	1	8/1/2022 8:14:00 PM	69172
Xylenes, Total	ND	0.096		mg/Kg	1	8/1/2022 8:14:00 PM	69172
Surr: 4-Bromofluorobenzene	85.3	70-130		%Rec	1	8/1/2022 8:14:00 PM	69172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SW-2
Project: Roy SWD 3
Collection Date: 7/28/2022 3:18:00 PM
Lab ID: 2207F69-018 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	59		mg/Kg	20	8/2/2022 9:49:54 AM	69186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	8/2/2022 10:24:30 PM	69181
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/2/2022 10:24:30 PM	69181
Surr: DNOP	67.7	21-129		%Rec	1	8/2/2022 10:24:30 PM	69181
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/1/2022 9:14:00 PM	69172
Surr: BFB	94.7	37.7-212		%Rec	1	8/1/2022 9:14:00 PM	69172
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	8/1/2022 9:14:00 PM	69172
Toluene	ND	0.048		mg/Kg	1	8/1/2022 9:14:00 PM	69172
Ethylbenzene	ND	0.048		mg/Kg	1	8/1/2022 9:14:00 PM	69172
Xylenes, Total	ND	0.097		mg/Kg	1	8/1/2022 9:14:00 PM	69172
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	8/1/2022 9:14:00 PM	69172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SW-3
Project: Roy SWD 3
Collection Date: 7/28/2022 3:20:00 PM
Lab ID: 2207F69-019 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	8/2/2022 10:02:15 AM	69186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	15	14		mg/Kg	1	8/2/2022 10:38:22 PM	69181
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/2/2022 10:38:22 PM	69181
Surr: DNOP	71.5	21-129		%Rec	1	8/2/2022 10:38:22 PM	69181
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/1/2022 10:13:00 PM	69172
Surr: BFB	90.4	37.7-212		%Rec	1	8/1/2022 10:13:00 PM	69172
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	8/1/2022 10:13:00 PM	69172
Toluene	ND	0.049		mg/Kg	1	8/1/2022 10:13:00 PM	69172
Ethylbenzene	ND	0.049		mg/Kg	1	8/1/2022 10:13:00 PM	69172
Xylenes, Total	ND	0.098		mg/Kg	1	8/1/2022 10:13:00 PM	69172
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	8/1/2022 10:13:00 PM	69172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SW-4
Project: Roy SWD 3
Collection Date: 7/28/2022 3:22:00 PM
Lab ID: 2207F69-020 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	650	60		mg/Kg	20	8/2/2022 10:14:36 AM	69186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/2/2022 10:52:20 PM	69181
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/2/2022 10:52:20 PM	69181
Surr: DNOP	71.6	21-129		%Rec	1	8/2/2022 10:52:20 PM	69181
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/1/2022 10:33:00 PM	69172
Surr: BFB	92.0	37.7-212		%Rec	1	8/1/2022 10:33:00 PM	69172
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 10:33:00 PM	69172
Toluene	ND	0.050		mg/Kg	1	8/1/2022 10:33:00 PM	69172
Ethylbenzene	ND	0.050		mg/Kg	1	8/1/2022 10:33:00 PM	69172
Xylenes, Total	ND	0.099		mg/Kg	1	8/1/2022 10:33:00 PM	69172
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	8/1/2022 10:33:00 PM	69172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SW-5
Project: Roy SWD 3
Collection Date: 7/28/2022 3:24:00 PM
Lab ID: 2207F69-021 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	100	60		mg/Kg	20	8/2/2022 10:26:56 AM	69186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/2/2022 11:06:13 PM	69181
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/2/2022 11:06:13 PM	69181
Surr: DNOP	44.2	21-129		%Rec	1	8/2/2022 11:06:13 PM	69181
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/1/2022 10:52:00 PM	69172
Surr: BFB	86.4	37.7-212		%Rec	1	8/1/2022 10:52:00 PM	69172
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 10:52:00 PM	69172
Toluene	ND	0.050		mg/Kg	1	8/1/2022 10:52:00 PM	69172
Ethylbenzene	ND	0.050		mg/Kg	1	8/1/2022 10:52:00 PM	69172
Xylenes, Total	ND	0.099		mg/Kg	1	8/1/2022 10:52:00 PM	69172
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	8/1/2022 10:52:00 PM	69172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SW-6
Project: Roy SWD 3
Collection Date: 7/28/2022 3:26:00 PM
Lab ID: 2207F69-022 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	160	60		mg/Kg	20	8/2/2022 10:39:16 AM	69186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/2/2022 11:20:10 PM	69181
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/2/2022 11:20:10 PM	69181
Surr: DNOP	40.4	21-129		%Rec	1	8/2/2022 11:20:10 PM	69181
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/1/2022 11:12:00 PM	69172
Surr: BFB	94.2	37.7-212		%Rec	1	8/1/2022 11:12:00 PM	69172
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 11:12:00 PM	69172
Toluene	ND	0.049		mg/Kg	1	8/1/2022 11:12:00 PM	69172
Ethylbenzene	ND	0.049		mg/Kg	1	8/1/2022 11:12:00 PM	69172
Xylenes, Total	ND	0.098		mg/Kg	1	8/1/2022 11:12:00 PM	69172
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	8/1/2022 11:12:00 PM	69172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207F69**
Date Reported: **8/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SW-7
Project: Roy SWD 3
Collection Date: 7/28/2022 3:28:00 PM
Lab ID: 2207F69-023 **Matrix:** SOIL **Received Date:** 7/30/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	100	60		mg/Kg	20	8/3/2022 1:28:06 PM	69226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/2/2022 11:34:05 PM	69181
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/2/2022 11:34:05 PM	69181
Surr: DNOP	51.2	21-129		%Rec	1	8/2/2022 11:34:05 PM	69181
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/1/2022 11:32:00 PM	69172
Surr: BFB	93.7	37.7-212		%Rec	1	8/1/2022 11:32:00 PM	69172
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	8/1/2022 11:32:00 PM	69172
Toluene	ND	0.050		mg/Kg	1	8/1/2022 11:32:00 PM	69172
Ethylbenzene	ND	0.050		mg/Kg	1	8/1/2022 11:32:00 PM	69172
Xylenes, Total	ND	0.10		mg/Kg	1	8/1/2022 11:32:00 PM	69172
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	8/1/2022 11:32:00 PM	69172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207F69**

05-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-69186**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **69186**	RunNo: **89935**
Prep Date: **8/1/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204018** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-69186**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **69186**	RunNo: **89935**
Prep Date: **8/1/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204020** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.4	90	110			

Sample ID: **MB-69209**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **69209**	RunNo: **89954**
Prep Date: **8/2/2022**	Analysis Date: **8/2/2022**	SeqNo: **3206565** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-69209**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **69209**	RunNo: **89954**
Prep Date: **8/2/2022**	Analysis Date: **8/2/2022**	SeqNo: **3206566** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.8	90	110			

Sample ID: **MB-69226**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **69226**	RunNo: **90012**
Prep Date: **8/3/2022**	Analysis Date: **8/3/2022**	SeqNo: **3207667** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-69226**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **69226**	RunNo: **90012**
Prep Date: **8/3/2022**	Analysis Date: **8/3/2022**	SeqNo: **3207668** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207F69**

05-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-69180**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69180**	RunNo: **89947**
Prep Date: **8/1/2022**	Analysis Date: **8/2/2022**	SeqNo: **3205580** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.0	21	129			

Sample ID: **LCS-69180**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69180**	RunNo: **89947**
Prep Date: **8/1/2022**	Analysis Date: **8/2/2022**	SeqNo: **3205581** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15	50.00	0	101	64.4	127			
Surr: DNOP	3.6		5.000		71.3	21	129			

Sample ID: **MB-69181**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69181**	RunNo: **89947**
Prep Date: **8/1/2022**	Analysis Date: **8/2/2022**	SeqNo: **3205582** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.1		10.00		71.2	21	129			

Sample ID: **LCS-69181**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69181**	RunNo: **89947**
Prep Date: **8/1/2022**	Analysis Date: **8/2/2022**	SeqNo: **3205583** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	15	50.00	0	100	64.4	127			
Surr: DNOP	3.7		5.000		74.5	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207F69**

05-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-69171**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **69171**	RunNo: **89940**
Prep Date: **7/31/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204369** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	72.3	137			
Surr: BFB	2100		1000		213	37.7	212			S

Sample ID: **mb-69171**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **69171**	RunNo: **89940**
Prep Date: **7/31/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204370** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.3	37.7	212			

Sample ID: **lcs-69172**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **69172**	RunNo: **89940**
Prep Date: **7/31/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204393** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	72.3	137			
Surr: BFB	2100		1000		207	37.7	212			

Sample ID: **mb-69172**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **69172**	RunNo: **89940**
Prep Date: **7/31/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204394** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.5	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207F69**

05-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-69171**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **69171**	RunNo: **89940**
Prep Date: **7/31/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204422** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.5	80	120			
Toluene	0.92	0.050	1.000	0	92.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.3	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	70	130			

Sample ID: **mb-69171**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **69171**	RunNo: **89940**
Prep Date: **7/31/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204423** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.6	70	130			

Sample ID: **lcs-69172**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **69172**	RunNo: **89940**
Prep Date: **7/31/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204447** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.8	80	120			
Toluene	0.89	0.050	1.000	0	89.0	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.2	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	70	130			

Sample ID: **mb-69172**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **69172**	RunNo: **89940**
Prep Date: **7/31/2022**	Analysis Date: **8/1/2022**	SeqNo: **3204448** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		85.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2207F69 | RcptNo: 1

Received By: Tracy Casarrubias 7/30/2022 9:30:00 AM

Completed By: Tracy Casarrubias 7/30/2022 10:12:44 AM

Reviewed By: 07/30/2022

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: TMC 7/30/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Yes			

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time: EOG 5 day TAT
☑ Standard ☒ **Rush**_____

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 5.5 -0 = 5.5°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2207F69	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
7-28-22	1445	Soil	S-1	1 x 4oz Jar	ICE	001	X	X	X
	1447		S-2			002			
	1449		S-3			003			
	1451		S-4			004			
	1453		S-5			005			
	1455		S-6			006			
	1457		S-7			007			
	1459		S-8			008			
	1501		S-9			009			
	1503		S-10			010			
	1505		S-11			011			
↓	1507	↓	~~S-13~~ S-12	↓	↓	012	↓	↓	↓

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7-29-22	1000	J. Martinez			7/29/22	1000
7/29/22	1900				7/30/22	9:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. ~~This serves as notice of~~ this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other
■ **EDD** (Type) Excel

Turn-Around Time: EOG 5 day TAT
☑ Standard ☒ **Rush**

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 5.5 -Ø = 5.5°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2207F69	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
7-28-22	1509	Soil	S-13	1x40z jar	ICE	013	X	X	X
	1510		S-14			014			
	1512		S-15			015			
	1514		S-16			016			
	1516		SW-1			017			
	1518		SW-2			018			
	1520		SW-3			019			
	1522		SW-4			020			
	1524		SW-5			021			
	1526		SW-6			022			
	1528		SW-7	~~1x3~~	—	023			
	~~1530~~								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7-29-22	1000	J. Martinez			7/29/22	1000
7/29/22	1900				7/30/22	9:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 16, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2208482

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 31 sample(s) on 8/9/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-1
Project: Roy SWD 3
Collection Date: 8/5/2022 9:50:00 AM
Lab ID: 2208482-001
Matrix: SOIL
Received Date: 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	410	60		mg/Kg	20	8/9/2022 5:40:42 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/9/2022 11:51:53 PM	69361
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/9/2022 11:51:53 PM	69361
Surr: DNOP	73.6	21-129		%Rec	1	8/9/2022 11:51:53 PM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2022 8:47:00 AM	69353
Surr: BFB	87.4	37.7-212		%Rec	1	8/10/2022 8:47:00 AM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 8:47:00 AM	69353
Toluene	ND	0.050		mg/Kg	1	8/10/2022 8:47:00 AM	69353
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2022 8:47:00 AM	69353
Xylenes, Total	ND	0.10		mg/Kg	1	8/10/2022 8:47:00 AM	69353
Surr: 4-Bromofluorobenzene	80.0	70-130		%Rec	1	8/10/2022 8:47:00 AM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-2
Project: Roy SWD 3
Collection Date: 8/5/2022 9:52:00 AM
Lab ID: 2208482-002 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	470	59		mg/Kg	20	8/9/2022 6:17:55 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 12:16:35 AM	69361
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2022 12:16:35 AM	69361
Surr: DNOP	74.1	21-129		%Rec	1	8/10/2022 12:16:35 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2022 9:07:00 AM	69353
Surr: BFB	84.7	37.7-212		%Rec	1	8/10/2022 9:07:00 AM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/10/2022 9:07:00 AM	69353
Toluene	ND	0.048		mg/Kg	1	8/10/2022 9:07:00 AM	69353
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2022 9:07:00 AM	69353
Xylenes, Total	ND	0.096		mg/Kg	1	8/10/2022 9:07:00 AM	69353
Surr: 4-Bromofluorobenzene	77.3	70-130		%Rec	1	8/10/2022 9:07:00 AM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-3
Project: Roy SWD 3
Collection Date: 8/5/2022 9:54:00 AM
Lab ID: 2208482-003 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	450	61		mg/Kg	20	8/9/2022 6:55:08 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 1:30:33 AM	69361
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2022 1:30:33 AM	69361
Surr: DNOP	66.2	21-129		%Rec	1	8/10/2022 1:30:33 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2022 9:27:00 AM	69353
Surr: BFB	90.5	37.7-212		%Rec	1	8/10/2022 9:27:00 AM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/10/2022 9:27:00 AM	69353
Toluene	ND	0.048		mg/Kg	1	8/10/2022 9:27:00 AM	69353
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2022 9:27:00 AM	69353
Xylenes, Total	ND	0.095		mg/Kg	1	8/10/2022 9:27:00 AM	69353
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	8/10/2022 9:27:00 AM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-4
Project: Roy SWD 3
Collection Date: 8/5/2022 9:56:00 AM
Lab ID: 2208482-004 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	410	60		mg/Kg	20	8/9/2022 7:07:33 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 1:55:19 AM	69361
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2022 1:55:19 AM	69361
Surr: DNOP	61.5	21-129		%Rec	1	8/10/2022 1:55:19 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2022 10:05:00 AM	69353
Surr: BFB	85.6	37.7-212		%Rec	1	8/10/2022 10:05:00 AM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/10/2022 10:05:00 AM	69353
Toluene	ND	0.048		mg/Kg	1	8/10/2022 10:05:00 AM	69353
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2022 10:05:00 AM	69353
Xylenes, Total	ND	0.097		mg/Kg	1	8/10/2022 10:05:00 AM	69353
Surr: 4-Bromofluorobenzene	80.3	70-130		%Rec	1	8/10/2022 10:05:00 AM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-5
Project: Roy SWD 3
Collection Date: 8/5/2022 9:58:00 AM
Lab ID: 2208482-005 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	450	59		mg/Kg	20	8/9/2022 7:44:46 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 2:20:02 AM	69361
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2022 2:20:02 AM	69361
Surr: DNOP	64.8	21-129		%Rec	1	8/10/2022 2:20:02 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2022 10:24:00 AM	69353
Surr: BFB	90.2	37.7-212		%Rec	1	8/10/2022 10:24:00 AM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/10/2022 10:24:00 AM	69353
Toluene	ND	0.048		mg/Kg	1	8/10/2022 10:24:00 AM	69353
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2022 10:24:00 AM	69353
Xylenes, Total	ND	0.097		mg/Kg	1	8/10/2022 10:24:00 AM	69353
Surr: 4-Bromofluorobenzene	80.2	70-130		%Rec	1	8/10/2022 10:24:00 AM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-6
Project: Roy SWD 3
Collection Date: 8/5/2022 10:00:00 AM
Lab ID: 2208482-006 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	440	60		mg/Kg	20	8/9/2022 7:57:10 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 2:44:49 AM	69361
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2022 2:44:49 AM	69361
Surr: DNOP	57.5	21-129		%Rec	1	8/10/2022 2:44:49 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2022 10:44:00 AM	69353
Surr: BFB	90.8	37.7-212		%Rec	1	8/10/2022 10:44:00 AM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 10:44:00 AM	69353
Toluene	ND	0.050		mg/Kg	1	8/10/2022 10:44:00 AM	69353
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2022 10:44:00 AM	69353
Xylenes, Total	ND	0.10		mg/Kg	1	8/10/2022 10:44:00 AM	69353
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	8/10/2022 10:44:00 AM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-7
Project: Roy SWD 3
Collection Date: 8/5/2022 10:02:00 AM
Lab ID: 2208482-007 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	390	61		mg/Kg	20	8/9/2022 8:09:35 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 3:09:27 AM	69361
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2022 3:09:27 AM	69361
Surr: DNOP	51.7	21-129		%Rec	1	8/10/2022 3:09:27 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2022 11:03:00 AM	69353
Surr: BFB	89.3	37.7-212		%Rec	1	8/10/2022 11:03:00 AM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 11:03:00 AM	69353
Toluene	ND	0.050		mg/Kg	1	8/10/2022 11:03:00 AM	69353
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2022 11:03:00 AM	69353
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2022 11:03:00 AM	69353
Surr: 4-Bromofluorobenzene	81.0	70-130		%Rec	1	8/10/2022 11:03:00 AM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-8
Project: Roy SWD 3
Collection Date: 8/5/2022 10:04:00 AM
Lab ID: 2208482-008 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	930	60		mg/Kg	20	8/9/2022 8:46:47 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 3:33:59 AM	69361
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/10/2022 3:33:59 AM	69361
Surr: DNOP	48.1	21-129		%Rec	1	8/10/2022 3:33:59 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2022 11:23:00 AM	69353
Surr: BFB	87.1	37.7-212		%Rec	1	8/10/2022 11:23:00 AM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 11:23:00 AM	69353
Toluene	ND	0.050		mg/Kg	1	8/10/2022 11:23:00 AM	69353
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2022 11:23:00 AM	69353
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2022 11:23:00 AM	69353
Surr: 4-Bromofluorobenzene	79.7	70-130		%Rec	1	8/10/2022 11:23:00 AM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-9
Project: Roy SWD 3
Collection Date: 8/5/2022 10:06:00 AM
Lab ID: 2208482-009 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1000	60		mg/Kg	20	8/9/2022 8:59:12 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 3:58:31 AM	69361
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2022 3:58:31 AM	69361
Surr: DNOP	55.2	21-129		%Rec	1	8/10/2022 3:58:31 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2022 11:43:00 AM	69353
Surr: BFB	88.6	37.7-212		%Rec	1	8/10/2022 11:43:00 AM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 11:43:00 AM	69353
Toluene	ND	0.049		mg/Kg	1	8/10/2022 11:43:00 AM	69353
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2022 11:43:00 AM	69353
Xylenes, Total	ND	0.098		mg/Kg	1	8/10/2022 11:43:00 AM	69353
Surr: 4-Bromofluorobenzene	80.7	70-130		%Rec	1	8/10/2022 11:43:00 AM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-10
Project: Roy SWD 3
Collection Date: 8/5/2022 10:10:00 AM
Lab ID: 2208482-010 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	580	60		mg/Kg	20	8/9/2022 9:11:36 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 4:22:59 AM	69361
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2022 4:22:59 AM	69361
Surr: DNOP	47.8	21-129		%Rec	1	8/10/2022 4:22:59 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/10/2022 12:03:00 PM	69353
Surr: BFB	85.9	37.7-212		%Rec	1	8/10/2022 12:03:00 PM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	8/10/2022 12:03:00 PM	69353
Toluene	ND	0.046		mg/Kg	1	8/10/2022 12:03:00 PM	69353
Ethylbenzene	ND	0.046		mg/Kg	1	8/10/2022 12:03:00 PM	69353
Xylenes, Total	ND	0.093		mg/Kg	1	8/10/2022 12:03:00 PM	69353
Surr: 4-Bromofluorobenzene	79.2	70-130		%Rec	1	8/10/2022 12:03:00 PM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-11
Project: Roy SWD 3
Collection Date: 8/5/2022 10:12:00 AM
Lab ID: 2208482-011 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	990	60		mg/Kg	20	8/9/2022 9:24:00 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 4:47:20 AM	69361
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2022 4:47:20 AM	69361
Surr: DNOP	41.1	21-129		%Rec	1	8/10/2022 4:47:20 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2022 12:42:00 PM	69353
Surr: BFB	88.0	37.7-212		%Rec	1	8/10/2022 12:42:00 PM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/10/2022 12:42:00 PM	69353
Toluene	ND	0.048		mg/Kg	1	8/10/2022 12:42:00 PM	69353
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2022 12:42:00 PM	69353
Xylenes, Total	ND	0.096		mg/Kg	1	8/10/2022 12:42:00 PM	69353
Surr: 4-Bromofluorobenzene	78.0	70-130		%Rec	1	8/10/2022 12:42:00 PM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-12
Project: Roy SWD 3
Collection Date: 8/5/2022 10:08:00 AM
Lab ID: 2208482-012 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	770	60		mg/Kg	20	8/9/2022 9:36:25 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 5:11:30 AM	69361
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2022 5:11:30 AM	69361
Surr: DNOP	45.1	21-129		%Rec	1	8/10/2022 5:11:30 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2022 1:02:00 PM	69353
Surr: BFB	86.7	37.7-212		%Rec	1	8/10/2022 1:02:00 PM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 1:02:00 PM	69353
Toluene	ND	0.050		mg/Kg	1	8/10/2022 1:02:00 PM	69353
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2022 1:02:00 PM	69353
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2022 1:02:00 PM	69353
Surr: 4-Bromofluorobenzene	77.9	70-130		%Rec	1	8/10/2022 1:02:00 PM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-13
Project: Roy SWD 3
Collection Date: 8/5/2022 12:18:00 PM
Lab ID: 2208482-013 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	360	60		mg/Kg	20	8/9/2022 9:48:49 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 5:35:31 AM	69361
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2022 5:35:31 AM	69361
Surr: DNOP	44.3	21-129		%Rec	1	8/10/2022 5:35:31 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2022 1:22:00 PM	69353
Surr: BFB	91.2	37.7-212		%Rec	1	8/10/2022 1:22:00 PM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/10/2022 1:22:00 PM	69353
Toluene	ND	0.048		mg/Kg	1	8/10/2022 1:22:00 PM	69353
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2022 1:22:00 PM	69353
Xylenes, Total	ND	0.096		mg/Kg	1	8/10/2022 1:22:00 PM	69353
Surr: 4-Bromofluorobenzene	78.4	70-130		%Rec	1	8/10/2022 1:22:00 PM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-1
Project: Roy SWD 3
Collection Date: 8/5/2022 10:14:00 AM
Lab ID: 2208482-014 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	560	60		mg/Kg	20	8/9/2022 10:01:13 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 5:59:39 AM	69361
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2022 5:59:39 AM	69361
Surr: DNOP	34.6	21-129		%Rec	1	8/10/2022 5:59:39 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/10/2022 1:41:00 PM	69353
Surr: BFB	85.4	37.7-212		%Rec	1	8/10/2022 1:41:00 PM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	8/10/2022 1:41:00 PM	69353
Toluene	ND	0.046		mg/Kg	1	8/10/2022 1:41:00 PM	69353
Ethylbenzene	ND	0.046		mg/Kg	1	8/10/2022 1:41:00 PM	69353
Xylenes, Total	ND	0.091		mg/Kg	1	8/10/2022 1:41:00 PM	69353
Surr: 4-Bromofluorobenzene	78.9	70-130		%Rec	1	8/10/2022 1:41:00 PM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-2
Project: Roy SWD 3
Collection Date: 8/5/2022 10:16:00 AM
Lab ID: 2208482-015 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2200	60		mg/Kg	20	8/9/2022 10:13:38 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 6:47:57 AM	69361
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2022 6:47:57 AM	69361
Surr: DNOP	36.8	21-129		%Rec	1	8/10/2022 6:47:57 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2022 2:01:00 PM	69353
Surr: BFB	84.4	37.7-212		%Rec	1	8/10/2022 2:01:00 PM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 2:01:00 PM	69353
Toluene	ND	0.050		mg/Kg	1	8/10/2022 2:01:00 PM	69353
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2022 2:01:00 PM	69353
Xylenes, Total	ND	0.10		mg/Kg	1	8/10/2022 2:01:00 PM	69353
Surr: 4-Bromofluorobenzene	78.3	70-130		%Rec	1	8/10/2022 2:01:00 PM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-3
Project: Roy SWD 3
Collection Date: 8/5/2022 10:18:00 AM
Lab ID: 2208482-016 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2300	60		mg/Kg	20	8/9/2022 10:26:02 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 7:12:09 AM	69361
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2022 7:12:09 AM	69361
Surr: DNOP	43.2	21-129		%Rec	1	8/10/2022 7:12:09 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2022 2:20:00 PM	69353
Surr: BFB	81.4	37.7-212		%Rec	1	8/10/2022 2:20:00 PM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/10/2022 2:20:00 PM	69353
Toluene	ND	0.049		mg/Kg	1	8/10/2022 2:20:00 PM	69353
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2022 2:20:00 PM	69353
Xylenes, Total	ND	0.098		mg/Kg	1	8/10/2022 2:20:00 PM	69353
Surr: 4-Bromofluorobenzene	75.6	70-130		%Rec	1	8/10/2022 2:20:00 PM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-4
Project: Roy SWD 3
Collection Date: 8/5/2022 10:20:00 AM
Lab ID: 2208482-017
Matrix: SOIL
Received Date: 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	510	60		mg/Kg	20	8/9/2022 10:38:26 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 7:36:13 AM	69361
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2022 7:36:13 AM	69361
Surr: DNOP	47.5	21-129		%Rec	1	8/10/2022 7:36:13 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2022 2:17:55 PM	69353
Surr: BFB	111	37.7-212		%Rec	1	8/10/2022 2:17:55 PM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 2:17:55 PM	69353
Toluene	ND	0.049		mg/Kg	1	8/10/2022 2:17:55 PM	69353
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2022 2:17:55 PM	69353
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2022 2:17:55 PM	69353
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/10/2022 2:17:55 PM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-5
Project: Roy SWD 3
Collection Date: 8/5/2022 10:22:00 AM
Lab ID: 2208482-018 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	900	60		mg/Kg	20	8/9/2022 11:15:39 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 8:00:17 AM	69361
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2022 8:00:17 AM	69361
Surr: DNOP	49.9	21-129		%Rec	1	8/10/2022 8:00:17 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2022 1:54:17 PM	69353
Surr: BFB	110	37.7-212		%Rec	1	8/10/2022 1:54:17 PM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/10/2022 1:54:17 PM	69353
Toluene	ND	0.048		mg/Kg	1	8/10/2022 1:54:17 PM	69353
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2022 1:54:17 PM	69353
Xylenes, Total	ND	0.097		mg/Kg	1	8/10/2022 1:54:17 PM	69353
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	8/10/2022 1:54:17 PM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-6
Project: Roy SWD 3
Collection Date: 8/5/2022 10:24:00 AM
Lab ID: 2208482-019 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1100	59		mg/Kg	20	8/9/2022 11:28:04 PM	69376
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 8:24:25 AM	69361
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2022 8:24:25 AM	69361
Surr: DNOP	46.4	21-129		%Rec	1	8/10/2022 8:24:25 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2022 1:30:39 PM	69353
Surr: BFB	110	37.7-212		%Rec	1	8/10/2022 1:30:39 PM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 1:30:39 PM	69353
Toluene	ND	0.050		mg/Kg	1	8/10/2022 1:30:39 PM	69353
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2022 1:30:39 PM	69353
Xylenes, Total	ND	0.10		mg/Kg	1	8/10/2022 1:30:39 PM	69353
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	8/10/2022 1:30:39 PM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-7
Project: Roy SWD 3
Collection Date: 8/5/2022 10:26:00 AM
Lab ID: 2208482-020 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	360	61		mg/Kg	20	8/11/2022 5:23:43 PM	69384
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 8:48:36 AM	69361
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2022 8:48:36 AM	69361
Surr: DNOP	43.6	21-129		%Rec	1	8/10/2022 8:48:36 AM	69361
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2022 1:07:04 PM	69353
Surr: BFB	109	37.7-212		%Rec	1	8/10/2022 1:07:04 PM	69353
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/10/2022 1:07:04 PM	69353
Toluene	ND	0.049		mg/Kg	1	8/10/2022 1:07:04 PM	69353
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2022 1:07:04 PM	69353
Xylenes, Total	ND	0.098		mg/Kg	1	8/10/2022 1:07:04 PM	69353
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/10/2022 1:07:04 PM	69353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-8
Project: Roy SWD 3
Collection Date: 8/5/2022 10:28:00 AM
Lab ID: 2208482-021 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	420	60		mg/Kg	20	8/11/2022 5:36:04 PM	69384
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 7:33:33 AM	69347
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/10/2022 7:33:33 AM	69347
Surr: DNOP	81.1	21-129		%Rec	1	8/10/2022 7:33:33 AM	69347
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2022 8:23:20 AM	69357
Surr: BFB	105	37.7-212		%Rec	1	8/10/2022 8:23:20 AM	69357
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/10/2022 8:23:20 AM	69357
Toluene	ND	0.049		mg/Kg	1	8/10/2022 8:23:20 AM	69357
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2022 8:23:20 AM	69357
Xylenes, Total	ND	0.098		mg/Kg	1	8/10/2022 8:23:20 AM	69357
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	8/10/2022 8:23:20 AM	69357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-45/A
Project: Roy SWD 3
Collection Date: 8/5/2022 2:40:00 PM
Lab ID: 2208482-022 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	600	60		mg/Kg	20	8/11/2022 5:48:24 PM	69384
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 7:48:14 AM	69347
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2022 7:48:14 AM	69347
Surr: DNOP	69.5	21-129		%Rec	1	8/10/2022 7:48:14 AM	69347
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2022 8:46:59 AM	69357
Surr: BFB	107	37.7-212		%Rec	1	8/10/2022 8:46:59 AM	69357
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 8:46:59 AM	69357
Toluene	ND	0.049		mg/Kg	1	8/10/2022 8:46:59 AM	69357
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2022 8:46:59 AM	69357
Xylenes, Total	ND	0.098		mg/Kg	1	8/10/2022 8:46:59 AM	69357
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/10/2022 8:46:59 AM	69357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-42/A
Project: Roy SWD 3
Collection Date: 8/5/2022 2:44:00 PM
Lab ID: 2208482-023 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1400	60		mg/Kg	20	8/11/2022 6:00:45 PM	69384
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 8:02:43 AM	69347
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2022 8:02:43 AM	69347
Surr: DNOP	68.9	21-129		%Rec	1	8/10/2022 8:02:43 AM	69347
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2022 9:10:38 AM	69357
Surr: BFB	105	37.7-212		%Rec	1	8/10/2022 9:10:38 AM	69357
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/10/2022 9:10:38 AM	69357
Toluene	ND	0.048		mg/Kg	1	8/10/2022 9:10:38 AM	69357
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2022 9:10:38 AM	69357
Xylenes, Total	ND	0.097		mg/Kg	1	8/10/2022 9:10:38 AM	69357
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/10/2022 9:10:38 AM	69357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EX-44/A
Project: Roy SWD 3 **Collection Date:** 8/5/2022 2:42:00 PM
Lab ID: 2208482-024 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	220	60		mg/Kg	20	8/11/2022 6:13:07 PM	69384
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 8:17:38 AM	69347
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/10/2022 8:17:38 AM	69347
Surr: DNOP	74.5	21-129		%Rec	1	8/10/2022 8:17:38 AM	69347
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2022 9:34:13 AM	69357
Surr: BFB	105	37.7-212		%Rec	1	8/10/2022 9:34:13 AM	69357
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/10/2022 9:34:13 AM	69357
Toluene	ND	0.048		mg/Kg	1	8/10/2022 9:34:13 AM	69357
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2022 9:34:13 AM	69357
Xylenes, Total	ND	0.097		mg/Kg	1	8/10/2022 9:34:13 AM	69357
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/10/2022 9:34:13 AM	69357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-10/A
Project: Roy SWD 3
Collection Date: 8/5/2022 3:20:00 PM
Lab ID: 2208482-025
Matrix: SOIL
Received Date: 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/11/2022 6:25:27 PM	69384
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 8:32:15 AM	69347
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/10/2022 8:32:15 AM	69347
Surr: DNOP	67.5	21-129		%Rec	1	8/10/2022 8:32:15 AM	69347
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2022 9:57:49 AM	69357
Surr: BFB	106	37.7-212		%Rec	1	8/10/2022 9:57:49 AM	69357
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 9:57:49 AM	69357
Toluene	ND	0.049		mg/Kg	1	8/10/2022 9:57:49 AM	69357
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2022 9:57:49 AM	69357
Xylenes, Total	ND	0.098		mg/Kg	1	8/10/2022 9:57:49 AM	69357
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/10/2022 9:57:49 AM	69357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-9/A
Project: Roy SWD 3
Collection Date: 8/5/2022 3:22:00 PM
Lab ID: 2208482-026 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	170	60		mg/Kg	20	8/11/2022 6:37:48 PM	69384
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 8:47:08 AM	69347
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2022 8:47:08 AM	69347
Surr: DNOP	64.5	21-129		%Rec	1	8/10/2022 8:47:08 AM	69347
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2022 10:21:29 AM	69357
Surr: BFB	107	37.7-212		%Rec	1	8/10/2022 10:21:29 AM	69357
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 10:21:29 AM	69357
Toluene	ND	0.049		mg/Kg	1	8/10/2022 10:21:29 AM	69357
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2022 10:21:29 AM	69357
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2022 10:21:29 AM	69357
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/10/2022 10:21:29 AM	69357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: P-7/A
Project: Roy SWD 3
Collection Date: 8/5/2022 12:08:00 PM
Lab ID: 2208482-027 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	660	60		mg/Kg	20	8/11/2022 6:50:08 PM	69384
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 9:01:53 AM	69347
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2022 9:01:53 AM	69347
Surr: DNOP	64.7	21-129		%Rec	1	8/10/2022 9:01:53 AM	69347
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2022 10:45:10 AM	69357
Surr: BFB	106	37.7-212		%Rec	1	8/10/2022 10:45:10 AM	69357
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 10:45:10 AM	69357
Toluene	ND	0.050		mg/Kg	1	8/10/2022 10:45:10 AM	69357
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2022 10:45:10 AM	69357
Xylenes, Total	ND	0.10		mg/Kg	1	8/10/2022 10:45:10 AM	69357
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/10/2022 10:45:10 AM	69357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** P-11/A
Project: Roy SWD 3 **Collection Date:** 8/5/2022 3:24:00 PM
Lab ID: 2208482-028 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	180	60		mg/Kg	20	8/11/2022 7:02:29 PM	69384
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 9:16:40 AM	69347
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/10/2022 9:16:40 AM	69347
Surr: DNOP	65.3	21-129		%Rec	1	8/10/2022 9:16:40 AM	69347
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2022 11:08:50 AM	69357
Surr: BFB	105	37.7-212		%Rec	1	8/10/2022 11:08:50 AM	69357
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/10/2022 11:08:50 AM	69357
Toluene	ND	0.048		mg/Kg	1	8/10/2022 11:08:50 AM	69357
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2022 11:08:50 AM	69357
Xylenes, Total	ND	0.096		mg/Kg	1	8/10/2022 11:08:50 AM	69357
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/10/2022 11:08:50 AM	69357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PW-4/A
Project: Roy SWD 3
Collection Date: 8/5/2022 2:30:00 PM
Lab ID: 2208482-029 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/11/2022 7:14:50 PM	69384
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 9:54:38 AM	69347
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2022 9:54:38 AM	69347
Surr: DNOP	71.8	21-129		%Rec	1	8/10/2022 9:54:38 AM	69347
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2022 11:32:32 AM	69357
Surr: BFB	107	37.7-212		%Rec	1	8/10/2022 11:32:32 AM	69357
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 11:32:32 AM	69357
Toluene	ND	0.050		mg/Kg	1	8/10/2022 11:32:32 AM	69357
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2022 11:32:32 AM	69357
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2022 11:32:32 AM	69357
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/10/2022 11:32:32 AM	69357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PW-2/A
Project: Roy SWD 3
Collection Date: 8/5/2022 2:33:00 PM
Lab ID: 2208482-030 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/11/2022 7:51:51 PM	69384
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 10:09:01 AM	69347
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2022 10:09:01 AM	69347
Surr: DNOP	72.0	21-129		%Rec	1	8/10/2022 10:09:01 AM	69347
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2022 11:56:11 AM	69357
Surr: BFB	108	37.7-212		%Rec	1	8/10/2022 11:56:11 AM	69357
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 11:56:11 AM	69357
Toluene	ND	0.049		mg/Kg	1	8/10/2022 11:56:11 AM	69357
Ethylbenzene	ND	0.049		mg/Kg	1	8/10/2022 11:56:11 AM	69357
Xylenes, Total	ND	0.098		mg/Kg	1	8/10/2022 11:56:11 AM	69357
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	8/10/2022 11:56:11 AM	69357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208482**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-14/A
Project: Roy SWD 3
Collection Date: 8/5/2022 2:46:00 PM
Lab ID: 2208482-031 **Matrix:** SOIL **Received Date:** 8/9/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	230	60		mg/Kg	20	8/11/2022 8:04:12 PM	69384
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/10/2022 1:17:38 PM	69347
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2022 1:17:38 PM	69347
Surr: DNOP	91.7	21-129		%Rec	1	8/10/2022 1:17:38 PM	69347
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2022 12:43:29 PM	69357
Surr: BFB	108	37.7-212		%Rec	1	8/10/2022 12:43:29 PM	69357
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/10/2022 12:43:29 PM	69357
Toluene	ND	0.050		mg/Kg	1	8/10/2022 12:43:29 PM	69357
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2022 12:43:29 PM	69357
Xylenes, Total	ND	0.10		mg/Kg	1	8/10/2022 12:43:29 PM	69357
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/10/2022 12:43:29 PM	69357

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208482**

16-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-69376**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **69376**	RunNo: **90140**
Prep Date: **8/9/2022**	Analysis Date: **8/9/2022**	SeqNo: **3213910** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-69376**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **69376**	RunNo: **90140**
Prep Date: **8/9/2022**	Analysis Date: **8/9/2022**	SeqNo: **3213911** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Sample ID: **MB-69384**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **69384**	RunNo: **90187**
Prep Date: **8/10/2022**	Analysis Date: **8/11/2022**	SeqNo: **3217870** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-69384**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **69384**	RunNo: **90187**
Prep Date: **8/10/2022**	Analysis Date: **8/11/2022**	SeqNo: **3217871** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208482**

16-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-69340**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69340**	RunNo: **90104**
Prep Date: **8/8/2022**	Analysis Date: **8/9/2022**	SeqNo: **3212922** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.3	21	129			

Sample ID: **LCS-69347**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69347**	RunNo: **90104**
Prep Date: **8/9/2022**	Analysis Date: **8/9/2022**	SeqNo: **3212923** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	90.5	64.4	127			
Surr: DNOP	4.5		5.000		89.6	21	129			

Sample ID: **MB-69340**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69340**	RunNo: **90104**
Prep Date: **8/8/2022**	Analysis Date: **8/9/2022**	SeqNo: **3212924** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.4	21	129			

Sample ID: **MB-69347**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69347**	RunNo: **90104**
Prep Date: **8/9/2022**	Analysis Date: **8/9/2022**	SeqNo: **3212925** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.8	21	129			

Sample ID: **MB-69361**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69361**	RunNo: **90104**
Prep Date: **8/9/2022**	Analysis Date: **8/9/2022**	SeqNo: **3213960** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.5		10.00		75.1	21	129			

Sample ID: **LCS-69361**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69361**	RunNo: **90104**
Prep Date: **8/9/2022**	Analysis Date: **8/9/2022**	SeqNo: **3213961** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208482**

16-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-69361**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69361**	RunNo: **90104**
Prep Date: **8/9/2022**	Analysis Date: **8/9/2022**	SeqNo: **3213961** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	15	50.00	0	81.8	64.4	127			
Surr: DNOP	3.1		5.000		62.0	21	129			

Sample ID: **MB-69329**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69329**	RunNo: **90146**
Prep Date: **8/8/2022**	Analysis Date: **8/9/2022**	SeqNo: **3214211** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.7		10.00		66.6	21	129			

Sample ID: **LCS-69329**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69329**	RunNo: **90146**
Prep Date: **8/8/2022**	Analysis Date: **8/9/2022**	SeqNo: **3214212** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	2.7		5.000		54.0	21	129			

Sample ID: **MB-69330**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69330**	RunNo: **90146**
Prep Date: **8/8/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214248** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9		10.00		79.0	21	129			

Sample ID: **LCS-69330**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69330**	RunNo: **90146**
Prep Date: **8/8/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214249** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		74.3	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208482**

16-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-69357**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **69357**	RunNo: **90135**
Prep Date: **8/9/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214169** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	72.3	137			
Surr: BFB	2100		1000		210	37.7	212			

Sample ID: **mb-69357**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **69357**	RunNo: **90135**
Prep Date: **8/9/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214170** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	37.7	212			

Sample ID: **lcs-69353**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **69353**	RunNo: **90150**
Prep Date: **8/9/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214378** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2000		1000		196	37.7	212			

Sample ID: **mb-69353**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **69353**	RunNo: **90150**
Prep Date: **8/9/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214379** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		87.1	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208482**

16-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-69357**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **69357**	RunNo: **90135**
Prep Date: **8/9/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214183** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.0	80	120			
Toluene	0.97	0.050	1.000	0	96.8	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: **mb-69357**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **69357**	RunNo: **90135**
Prep Date: **8/9/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214184** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: **lcs-69353**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **69353**	RunNo: **90150**
Prep Date: **8/9/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214396** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.0	80	120			
Toluene	0.83	0.050	1.000	0	82.6	80	120			
Ethylbenzene	0.83	0.050	1.000	0	82.5	80	120			
Xylenes, Total	2.4	0.10	3.000	0	81.7	80	120			
Surr: 4-Bromofluorobenzene	0.81		1.000		80.7	70	130			

Sample ID: **mb-69353**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **69353**	RunNo: **90150**
Prep Date: **8/9/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214397** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.78		1.000		77.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2208482 | RcptNo: 1

Received By: Juan Rojas 8/9/2022 7:15:00 AM

Completed By: Juan Rojas 8/9/2022 7:51:22 AM

Reviewed By: KPA 8.09.22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: ____ (<2 or >12 unless noted)

Adjusted? ____

Checked by: JA 8/9/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: ____ Date: ____

By Whom: ____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: ____

Client Instructions: ____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good				

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☒ **Rush** 24 hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler:

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.3-0.1=1.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208482	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8-5-22	0950	soil	B-1	1 x 4oz Jar	ICE	-001	X	X	X
	0952		B-2			-002			
	0954		B-3			-003			
	0956		B-4			-004			
	0958		B-5			-005			
	1000		B-6			-006			
	1002		B-7			-007			
	1004		B-8			-008			
	1006		B-9			-009			
	1010		B-10			-010			
	1012		B-11			-011			
↓	1008	↓	B-12	↓	↓	-012	↓	↓	↓

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8-8-22	1009	J. Martinez			8/8/22	1009
8/8/22	1900			courier	8/9/22	7:15

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Page 356 of 2289

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 24 hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler:

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.3-0.1=1.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208482	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8-5-22	1218	soil	B-13	1 4oz Jar	ICE	-013	X	X	X
	1014		W-1			-014			
	1016		W-2			-015			
	1018		W-3			-016			
	1020		W-4			-017			
	1022		W-5			-018			
	1024		W-6			-019			
	1026		W-7			-020			
	1028		W-8			-021			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8-5-22	1009	J. Martinez			8/8/22	109
8/8/22	1900		courier		8/9/22	7:15

Remarks: Bill to EOG Artesia

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Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 24 hr

Project Name:
Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.3-0.1=1.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208482	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8-5-22	1440	soil	EX-45/A	1x4oz Jar	ICE	-022	X	X	X
	1444		EX-42/A			-023			
	1442		EX-44/A			-024			
	1520		P-10/A			-025			
	1522		P-9/A			-026			
	1208		P-7/A			-027			
	1524		P-11/A			-028			
	1430		[redacted] PW-4/A			-029			
	1433		PW-2/A			-030			
	1446		EW-14/A			-031			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8-8-22	1009	J. Martinez	[signature]		8/8/22	1009
8/8/22	1900	[signature]	[signature] courier		8/9/22	7:15

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 16, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2208576

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/10/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2208576**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-33/B
Project: Roy SWD 3
Collection Date: 8/8/2022 4:00:00 PM
Lab ID: 2208576-001 **Matrix:** SOIL **Received Date:** 8/10/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	170	60		mg/Kg	20	8/10/2022 5:33:20 PM	69385
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	8/10/2022 1:08:48 PM	A90145
Surr: BFB	111	70-130		%Rec	1	8/10/2022 1:08:48 PM	A90145
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 12:36:36 PM	69383
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/10/2022 12:36:36 PM	69383
Surr: DNOP	92.3	21-129		%Rec	1	8/10/2022 12:36:36 PM	69383
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.016		mg/Kg	1	8/10/2022 1:08:48 PM	B90145
Toluene	ND	0.031		mg/Kg	1	8/10/2022 1:08:48 PM	B90145
Ethylbenzene	ND	0.031		mg/Kg	1	8/10/2022 1:08:48 PM	B90145
Xylenes, Total	ND	0.062		mg/Kg	1	8/10/2022 1:08:48 PM	B90145
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%Rec	1	8/10/2022 1:08:48 PM	B90145
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	8/10/2022 1:08:48 PM	B90145
Surr: Dibromofluoromethane	96.9	70-130		%Rec	1	8/10/2022 1:08:48 PM	B90145
Surr: Toluene-d8	104	70-130		%Rec	1	8/10/2022 1:08:48 PM	B90145

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208576**
Date Reported: **8/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EX-34/B
Project: Roy SWD 3
Collection Date: 8/8/2022 4:10:00 PM
Lab ID: 2208576-002 **Matrix:** SOIL **Received Date:** 8/10/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	310	60		mg/Kg	20	8/10/2022 6:10:22 PM	69385
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	8/10/2022 1:35:50 PM	A90145
Surr: BFB	102	70-130		%Rec	1	8/10/2022 1:35:50 PM	A90145
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/10/2022 12:50:15 PM	69383
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2022 12:50:15 PM	69383
Surr: DNOP	83.2	21-129		%Rec	1	8/10/2022 12:50:15 PM	69383
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.015		mg/Kg	1	8/10/2022 1:35:50 PM	B90145
Toluene	ND	0.030		mg/Kg	1	8/10/2022 1:35:50 PM	B90145
Ethylbenzene	ND	0.030		mg/Kg	1	8/10/2022 1:35:50 PM	B90145
Xylenes, Total	ND	0.060		mg/Kg	1	8/10/2022 1:35:50 PM	B90145
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%Rec	1	8/10/2022 1:35:50 PM	B90145
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/10/2022 1:35:50 PM	B90145
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	8/10/2022 1:35:50 PM	B90145
Surr: Toluene-d8	101	70-130		%Rec	1	8/10/2022 1:35:50 PM	B90145

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208576**

16-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID:	**MB-69385**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**69385**	RunNo:	**90148**					
Prep Date:	**8/10/2022**	Analysis Date:	**8/10/2022**	SeqNo:	**3215869**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-69385**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**69385**	RunNo:	**90148**					
Prep Date:	**8/10/2022**	Analysis Date:	**8/10/2022**	SeqNo:	**3215870**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208576**

16-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-69329**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69329**	RunNo: **90146**
Prep Date: **8/8/2022**	Analysis Date: **8/9/2022**	SeqNo: **3214211** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.7		10.00		66.6	21	129			

Sample ID: **LCS-69329**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69329**	RunNo: **90146**
Prep Date: **8/8/2022**	Analysis Date: **8/9/2022**	SeqNo: **3214212** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	2.7		5.000		54.0	21	129			

Sample ID: **MB-69330**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69330**	RunNo: **90146**
Prep Date: **8/8/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214248** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9		10.00		79.0	21	129			

Sample ID: **LCS-69330**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69330**	RunNo: **90146**
Prep Date: **8/8/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214249** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		74.3	21	129			

Sample ID: **LCS-69383**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69383**	RunNo: **90146**
Prep Date: **8/10/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214282** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	15	50.00	0	103	64.4	127			
Surr: DNOP	5.4		5.000		108	21	129			

Sample ID: **MB-69383**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69383**	RunNo: **90146**
Prep Date: **8/10/2022**	Analysis Date: **8/10/2022**	SeqNo: **3214518** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.3	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208576**

16-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **B90145**	RunNo: **90145**
Prep Date:	Analysis Date: **8/10/2022**	SeqNo: **3214146** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.9	70	130			
Toluene	0.93	0.050	1.000	0	93.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.6	70	130			
Surr: 4-Bromofluorobenzene	0.55		0.5000		110	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.8	70	130			
Surr: Toluene-d8	0.47		0.5000		94.5	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **B90145**	RunNo: **90145**
Prep Date:	Analysis Date: **8/10/2022**	SeqNo: **3214151** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		107	70	130			
Surr: 4-Bromofluorobenzene	0.56		0.5000		111	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.50		0.5000		99.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208576**

16-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **A90145**	RunNo: **90145**
Prep Date:	Analysis Date: **8/10/2022**	SeqNo: **3214145** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	510		500.0		102	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **A90145**	RunNo: **90145**
Prep Date:	Analysis Date: **8/10/2022**	SeqNo: **3214152** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.8	70	130			
Surr: BFB	510		500.0		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG Work Order Number: 2208576 RcptNo: 1

Received By: Juan Rojas 8/10/2022 7:05:00 AM

Completed By: Juan Rojas 8/10/2022 7:31:02 AM

Reviewed By: KPA 8.10.22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: JR 8/10/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good				

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Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 24 hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler:

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.8+0.1=1.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208576	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8-8-22	1600	Soil	EX-33/B	1x 4oz jar	ICE	-001	X	X	X
8-8-22	1610	Soil	EX-34/B	"	"	-002	"	"	"

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8-9-22	1113	J. Martinez			8/9/22	1123
8/9/22	1900			Courier	8/10/22	7.05

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 30, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2208988

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/17/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued August 26, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2208988**
Date Reported: **8/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-6/A
Project: Roy SWD 3
Collection Date: 8/16/2022 8:45:00 AM
Lab ID: 2208988-001 **Matrix:** SOIL **Received Date:** 8/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	490	60		mg/Kg	20	8/17/2022 9:22:31 PM	69587
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/22/2022 2:57:58 PM	69549
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/22/2022 2:57:58 PM	69549
Surr: DNOP	93.9	21-129		%Rec	1	8/22/2022 2:57:58 PM	69549
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	8/17/2022 2:47:00 PM	A90339
Surr: BFB	102	37.7-212		%Rec	1	8/17/2022 2:47:00 PM	A90339
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.019		mg/Kg	1	8/17/2022 2:47:00 PM	B90339
Toluene	ND	0.038		mg/Kg	1	8/17/2022 2:47:00 PM	B90339
Ethylbenzene	ND	0.038		mg/Kg	1	8/17/2022 2:47:00 PM	B90339
Xylenes, Total	ND	0.077		mg/Kg	1	8/17/2022 2:47:00 PM	B90339
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	8/17/2022 2:47:00 PM	B90339

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2208988**
Date Reported: **8/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-10/A
Project: Roy SWD 3
Collection Date: 8/16/2022 9:15:00 AM
Lab ID: 2208988-002 **Matrix:** SOIL **Received Date:** 8/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	480	60		mg/Kg	20	8/17/2022 9:34:52 PM	69587
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/22/2022 2:16:02 PM	69549
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/22/2022 2:16:02 PM	69549
Surr: DNOP	111	21-129		%Rec	1	8/22/2022 2:16:02 PM	69549
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/17/2022 3:07:00 PM	A90339
Surr: BFB	99.9	37.7-212		%Rec	1	8/17/2022 3:07:00 PM	A90339
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	8/17/2022 3:07:00 PM	B90339
Toluene	ND	0.048		mg/Kg	1	8/17/2022 3:07:00 PM	B90339
Ethylbenzene	ND	0.048		mg/Kg	1	8/17/2022 3:07:00 PM	B90339
Xylenes, Total	ND	0.096		mg/Kg	1	8/17/2022 3:07:00 PM	B90339
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	8/17/2022 3:07:00 PM	B90339

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208988**
Date Reported: **8/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-5/A
Project: Roy SWD 3
Collection Date: 8/16/2022 10:45:00 AM
Lab ID: 2208988-003 **Matrix:** SOIL **Received Date:** 8/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	460	60		mg/Kg	20	8/17/2022 9:47:14 PM	69587
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/22/2022 2:39:43 PM	69549
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/22/2022 2:39:43 PM	69549
Surr: DNOP	110	21-129		%Rec	1	8/22/2022 2:39:43 PM	69549
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/17/2022 3:26:00 PM	A90339
Surr: BFB	102	37.7-212		%Rec	1	8/17/2022 3:26:00 PM	A90339
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.019		mg/Kg	1	8/17/2022 3:26:00 PM	B90339
Toluene	ND	0.037		mg/Kg	1	8/17/2022 3:26:00 PM	B90339
Ethylbenzene	ND	0.037		mg/Kg	1	8/17/2022 3:26:00 PM	B90339
Xylenes, Total	ND	0.074		mg/Kg	1	8/17/2022 3:26:00 PM	B90339
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/17/2022 3:26:00 PM	B90339

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208988**
30-Aug-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-69587**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **69587**	RunNo: **90338**
Prep Date: **8/17/2022**	Analysis Date: **8/17/2022**	SeqNo: **3223921** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-69587**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **69587**	RunNo: **90338**
Prep Date: **8/17/2022**	Analysis Date: **8/17/2022**	SeqNo: **3223922** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208988**
30-Aug-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-69549** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **69549** RunNo: **90349**
Prep Date: **8/17/2022** Analysis Date: **8/17/2022** SeqNo: **3223174** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		78.7	21	129			

Sample ID: **LCS-69549** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **69549** RunNo: **90349**
Prep Date: **8/17/2022** Analysis Date: **8/17/2022** SeqNo: **3223175** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	95.9	64.4	127			
Surr: DNOP	3.9		5.000		78.6	21	129			

Sample ID: **MB-69630** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **69630** RunNo: **90468**
Prep Date: **8/19/2022** Analysis Date: **8/22/2022** SeqNo: **3231105** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.8		10.00		77.8	21	129			

Sample ID: **LCS-69630** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **69630** RunNo: **90468**
Prep Date: **8/19/2022** Analysis Date: **8/22/2022** SeqNo: **3231106** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		81.2	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208988**
30-Aug-22

Client: EOG
Project: Roy SWD 3

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **A90339** RunNo: **90339**
Prep Date: Analysis Date: **8/17/2022** SeqNo: **3223655** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2100		1000		212	37.7	212			S

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **A90339** RunNo: **90339**
Prep Date: Analysis Date: **8/17/2022** SeqNo: **3223656** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.1	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208988**
30-Aug-22

Client: EOG
Project: Roy SWD 3

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **B90339** RunNo: **90339**
Prep Date: Analysis Date: **8/17/2022** SeqNo: **3223685** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	85.8	80	120			
Toluene	0.88	0.050	1.000	0	87.6	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.5	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **B90339** RunNo: **90339**
Prep Date: Analysis Date: **8/17/2022** SeqNo: **3223686** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2208988 | RcptNo: 1

Received By: Juan Rojas | 8/17/2022 7:10:00 AM

Completed By: Juan Rojas | 8/17/2022 7:36:17 AM

Reviewed By: JO | 8/17/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: 8-17-22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good				

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☑ **Rush** 24-hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 0.3-0=0.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208985	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8-16-22	0845	soil	S-6 / A	1x4oz Jar	ICE	-001	X	X	X
8-16-22	0915	"	S-10 / A	"	"	-002	"	"	"
8-16-22	1045	"	W-5 / A	"	"	-003	"	"	"

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8-16-22	1313	Jmartinez			8/16/22	1313
8/16/22	1900			Courier	8/17/22	7:10

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 23, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2208B91

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/19/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2208B91**
Date Reported: **8/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-6A
Project: Roy SWD 3
Collection Date: 8/16/2022 2:10:00 PM
Lab ID: 2208B91-001 **Matrix:** SOIL **Received Date:** 8/19/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	580	60		mg/Kg	20	8/19/2022 9:06:08 PM	69643
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/19/2022 11:04:27 AM	69628
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/19/2022 11:04:27 AM	69628
Surr: DNOP	81.3	21-129		%Rec	1	8/19/2022 11:04:27 AM	69628
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/19/2022 2:59:06 PM	B90417
Surr: BFB	106	37.7-212		%Rec	1	8/19/2022 2:59:06 PM	B90417
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	8/19/2022 2:59:06 PM	D90417
Toluene	ND	0.036		mg/Kg	1	8/19/2022 2:59:06 PM	D90417
Ethylbenzene	ND	0.036		mg/Kg	1	8/19/2022 2:59:06 PM	D90417
Xylenes, Total	ND	0.072		mg/Kg	1	8/19/2022 2:59:06 PM	D90417
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	8/19/2022 2:59:06 PM	D90417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208B91**
Date Reported: **8/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SW-4A
Project: Roy SWD 3
Collection Date: 8/16/2022 3:50:00 PM
Lab ID: 2208B91-002 **Matrix:** SOIL **Received Date:** 8/19/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	510	60		mg/Kg	20	8/19/2022 9:18:33 PM	69643
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/19/2022 11:18:34 AM	69628
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/19/2022 11:18:34 AM	69628
Surr: DNOP	78.4	21-129		%Rec	1	8/19/2022 11:18:34 AM	69628
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/19/2022 3:22:45 PM	B90417
Surr: BFB	107	37.7-212		%Rec	1	8/19/2022 3:22:45 PM	B90417
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	8/19/2022 3:22:45 PM	D90417
Toluene	ND	0.037		mg/Kg	1	8/19/2022 3:22:45 PM	D90417
Ethylbenzene	ND	0.037		mg/Kg	1	8/19/2022 3:22:45 PM	D90417
Xylenes, Total	ND	0.074		mg/Kg	1	8/19/2022 3:22:45 PM	D90417
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	8/19/2022 3:22:45 PM	D90417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208B91**
Date Reported: **8/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S-2A
Project: Roy SWD 3
Collection Date: 8/16/2022 3:45:00 PM
Lab ID: 2208B91-003 **Matrix:** SOIL **Received Date:** 8/19/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	390	60		mg/Kg	20	8/19/2022 9:30:58 PM	69643
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/19/2022 11:32:54 AM	69628
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/19/2022 11:32:54 AM	69628
Surr: DNOP	78.7	21-129		%Rec	1	8/19/2022 11:32:54 AM	69628
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	8/19/2022 4:33:35 PM	B90417
Surr: BFB	110	37.7-212		%Rec	1	8/19/2022 4:33:35 PM	B90417
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	8/19/2022 4:33:35 PM	D90417
Toluene	ND	0.041		mg/Kg	1	8/19/2022 4:33:35 PM	D90417
Ethylbenzene	ND	0.041		mg/Kg	1	8/19/2022 4:33:35 PM	D90417
Xylenes, Total	ND	0.081		mg/Kg	1	8/19/2022 4:33:35 PM	D90417
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	8/19/2022 4:33:35 PM	D90417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208B91**

23-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID:	**MB-69643**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**69643**	RunNo:	**90418**					
Prep Date:	**8/19/2022**	Analysis Date:	**8/19/2022**	SeqNo:	**3228127**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-69643**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**69643**	RunNo:	**90418**					
Prep Date:	**8/19/2022**	Analysis Date:	**8/19/2022**	SeqNo:	**3228128**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208B91**

23-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-69628**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69628**	RunNo: **90423**
Prep Date: **8/19/2022**	Analysis Date: **8/19/2022**	SeqNo: **3226587** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.7		10.00		76.7	21	129			

Sample ID: **LCS-69628**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69628**	RunNo: **90423**
Prep Date: **8/19/2022**	Analysis Date: **8/19/2022**	SeqNo: **3226588** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	15	50.00	0	92.2	64.4	127			
Surr: DNOP	3.8		5.000		76.1	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208B91**

23-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **B90417**	RunNo: **90417**
Prep Date:	Analysis Date: **8/19/2022**	SeqNo: **3227673** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		113	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **B90417**	RunNo: **90417**
Prep Date:	Analysis Date: **8/19/2022**	SeqNo: **3227674** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	72.3	137			
Surr: BFB	2100		1000		207	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208B91**

23-Aug-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **D90417**	RunNo: **90417**
Prep Date:	Analysis Date: **8/19/2022**	SeqNo: **3227719** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **D90417**	RunNo: **90417**
Prep Date:	Analysis Date: **8/19/2022**	SeqNo: **3227720** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.8	80	120			
Toluene	1.0	0.050	1.000	0	99.6	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.5	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG Work Order Number: 2208B91 RcptNo: 1

Received By: Juan Rojas 8/19/2022 7:10:00 AM

Completed By: Juan Rojas 8/19/2022 7:18:23 AM

Reviewed By: NBS 8/19/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JNS 8/19/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good				

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 24hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 0.3+0.2=0.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208891	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8-16-22	1400	Soil	W-6A	1x4oz jar	ICE	-001	X	X	X
"	1550	"	SW-4A	"	"	-002	"	"	"
"	1545	"	S-2A	"	"	-003	"	"	"

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8-18-22	700	J. Martinez	[signature]		8/18/22	700
8/18/22	1900	[signature]	[signature]	courier	8/19/22	7:40

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 31, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: ROY SWD 3 OrderNo.: 2208G24

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/26/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2208G24**
Date Reported: **8/31/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EX-42/B
Project: ROY SWD 3 **Collection Date:** 8/22/2022 9:30:00 AM
Lab ID: 2208G24-001 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2022 7:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	470	60		mg/Kg	20	8/26/2022 4:05:48 PM	69797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/26/2022 1:42:44 PM	69790
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/26/2022 1:42:44 PM	69790
Surr: DNOP	76.2	21-129		%Rec	1	8/26/2022 1:42:44 PM	69790
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/26/2022 9:49:04 AM	G90591
Surr: BFB	94.2	37.7-212		%Rec	1	8/26/2022 9:49:04 AM	G90591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	8/26/2022 9:49:04 AM	B90591
Toluene	ND	0.037		mg/Kg	1	8/26/2022 9:49:04 AM	B90591
Ethylbenzene	ND	0.037		mg/Kg	1	8/26/2022 9:49:04 AM	B90591
Xylenes, Total	ND	0.074		mg/Kg	1	8/26/2022 9:49:04 AM	B90591
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	8/26/2022 9:49:04 AM	B90591

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208G24**
Date Reported: **8/31/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-8A
Project: ROY SWD 3 **Collection Date:** 8/24/2022 9:30:00 AM
Lab ID: 2208G24-002 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2022 7:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/26/2022 4:18:09 PM	69797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/26/2022 1:53:27 PM	69790
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/26/2022 1:53:27 PM	69790
Surr: DNOP	79.1	21-129		%Rec	1	8/26/2022 1:53:27 PM	69790
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/26/2022 10:12:37 AM	G90591
Surr: BFB	93.5	37.7-212		%Rec	1	8/26/2022 10:12:37 AM	G90591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	8/26/2022 10:12:37 AM	B90591
Toluene	ND	0.035		mg/Kg	1	8/26/2022 10:12:37 AM	B90591
Ethylbenzene	ND	0.035		mg/Kg	1	8/26/2022 10:12:37 AM	B90591
Xylenes, Total	ND	0.070		mg/Kg	1	8/26/2022 10:12:37 AM	B90591
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	8/26/2022 10:12:37 AM	B90591

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208G24**
Date Reported: **8/31/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-9A
Project: ROY SWD 3 **Collection Date:** 8/24/2022 9:32:00 AM
Lab ID: 2208G24-003 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2022 7:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/26/2022 4:30:29 PM	69797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/26/2022 2:04:12 PM	69790
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/26/2022 2:04:12 PM	69790
Surr: DNOP	76.9	21-129		%Rec	1	8/26/2022 2:04:12 PM	69790
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	8/26/2022 10:36:05 AM	G90591
Surr: BFB	93.7	37.7-212		%Rec	1	8/26/2022 10:36:05 AM	G90591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	8/26/2022 10:36:05 AM	B90591
Toluene	ND	0.039		mg/Kg	1	8/26/2022 10:36:05 AM	B90591
Ethylbenzene	ND	0.039		mg/Kg	1	8/26/2022 10:36:05 AM	B90591
Xylenes, Total	ND	0.077		mg/Kg	1	8/26/2022 10:36:05 AM	B90591
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	8/26/2022 10:36:05 AM	B90591

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208G24**
Date Reported: **8/31/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-12A
Project: ROY SWD 3 **Collection Date:** 8/24/2022 9:34:00 AM
Lab ID: 2208G24-004 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2022 7:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/26/2022 4:42:50 PM	69797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/26/2022 12:58:03 PM	69790
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/26/2022 12:58:03 PM	69790
Surr: DNOP	69.1	21-129		%Rec	1	8/26/2022 12:58:03 PM	69790
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	8/26/2022 10:59:36 AM	G90591
Surr: BFB	93.0	37.7-212		%Rec	1	8/26/2022 10:59:36 AM	G90591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	8/26/2022 10:59:36 AM	B90591
Toluene	ND	0.033		mg/Kg	1	8/26/2022 10:59:36 AM	B90591
Ethylbenzene	ND	0.033		mg/Kg	1	8/26/2022 10:59:36 AM	B90591
Xylenes, Total	ND	0.065		mg/Kg	1	8/26/2022 10:59:36 AM	B90591
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	8/26/2022 10:59:36 AM	B90591

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G24**

31-Aug-22

Client: EOG

Project: ROY SWD 3

Sample ID: **MB-69797**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **69797**	RunNo: **90607**
Prep Date: **8/26/2022**	Analysis Date: **8/26/2022**	SeqNo: **3238580** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-69797**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **69797**	RunNo: **90607**
Prep Date: **8/26/2022**	Analysis Date: **8/26/2022**	SeqNo: **3238581** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G24**

31-Aug-22

Client: EOG

Project: ROY SWD 3

Sample ID: **LCS-69790**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69790**	RunNo: **90606**
Prep Date: **8/26/2022**	Analysis Date: **8/26/2022**	SeqNo: **3237274** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	15	50.00	0	73.3	64.4	127			
Surr: DNOP	2.9		5.000		57.8	21	129			

Sample ID: **MB-69790**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69790**	RunNo: **90606**
Prep Date: **8/26/2022**	Analysis Date: **8/26/2022**	SeqNo: **3237275** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	6.7		10.00		66.7	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G24**

31-Aug-22

Client: EOG

Project: ROY SWD 3

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G90591**	RunNo: **90591**
Prep Date:	Analysis Date: **8/26/2022**	SeqNo: **3237651** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.8	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G90591**	RunNo: **90591**
Prep Date:	Analysis Date: **8/26/2022**	SeqNo: **3237652** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.7	72.3	137			
Surr: BFB	1900		1000		187	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G24**

31-Aug-22

Client: EOG

Project: ROY SWD 3

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B90591**	RunNo: **90591**
Prep Date:	Analysis Date: **8/26/2022**	SeqNo: **3237666** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		90.6	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B90591**	RunNo: **90591**
Prep Date:	Analysis Date: **8/26/2022**	SeqNo: **3237667** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.9	80	120			
Toluene	0.95	0.050	1.000	0	95.1	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG Work Order Number: 2208G24 RcptNo: 1

Received By: Cheyenne Cason 8/26/2022 7:59:00 AM
Completed By: Cheyenne Cason 8/26/2022 8:26:52 AM
Reviewed By: DAD 8/26/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Approved by client.
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: SCL 8/26/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	8.7	Good	Not Present			

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☑ **Rush** 24 HOUR

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 8.7 + 0 = 8.7°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208G24	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8-22-22	0930	soil	Ex-42 / B	1x4oz Jar	ICE	001	X	X	X
8-24-22	0930	"	B-8 A	"	"	002	"	"	"
"	0932	"	B-9 A	"	"	003	"	"	"
"	0934	"	B-12 A	"	"	004	"	"	"

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8-25-22	0836	J. Martinez				
8/25/22	1900				8/25/22	736
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			CMC courier		8/26/22	0759

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 09, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2208G91

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/27/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 02, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2208G91**
Date Reported: **9/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** P - 7/B
Project: Roy SWD 3 **Collection Date:** 8/25/2022 12:02:00 PM
Lab ID: 2208G91-001 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/29/2022 7:39:31 PM	69832
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/30/2022 4:29:26 AM	69828
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/30/2022 4:29:26 AM	69828
Surr: DNOP	90.9	21-129		%Rec	1	8/30/2022 4:29:26 AM	69828
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	8/27/2022 6:14:00 PM	A90618
Surr: BFB	102	37.7-212		%Rec	1	8/27/2022 6:14:00 PM	A90618
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.021		mg/Kg	1	8/27/2022 6:14:00 PM	B90618
Toluene	ND	0.042		mg/Kg	1	8/27/2022 6:14:00 PM	B90618
Ethylbenzene	ND	0.042		mg/Kg	1	8/27/2022 6:14:00 PM	B90618
Xylenes, Total	ND	0.084		mg/Kg	1	8/27/2022 6:14:00 PM	B90618
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	8/27/2022 6:14:00 PM	B90618

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2208G91**
Date Reported: **9/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** P - 8/B
Project: Roy SWD 3 **Collection Date:** 8/25/2022 12:04:00 PM
Lab ID: 2208G91-002 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1000	60		mg/Kg	20	8/29/2022 7:51:55 PM	69832
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/30/2022 4:40:11 AM	69828
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/30/2022 4:40:11 AM	69828
Surr: DNOP	83.4	21-129		%Rec	1	8/30/2022 4:40:11 AM	69828
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	8/27/2022 6:33:00 PM	A90618
Surr: BFB	106	37.7-212		%Rec	1	8/27/2022 6:33:00 PM	A90618
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.016		mg/Kg	1	8/27/2022 6:33:00 PM	B90618
Toluene	ND	0.033		mg/Kg	1	8/27/2022 6:33:00 PM	B90618
Ethylbenzene	ND	0.033		mg/Kg	1	8/27/2022 6:33:00 PM	B90618
Xylenes, Total	ND	0.066		mg/Kg	1	8/27/2022 6:33:00 PM	B90618
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	8/27/2022 6:33:00 PM	B90618

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2208G91**
Date Reported: **9/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** P - 16/A
Project: Roy SWD 3 **Collection Date:** 8/25/2022 12:06:00 PM
Lab ID: 2208G91-003 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	960	60		mg/Kg	20	8/29/2022 8:04:20 PM	69832
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/30/2022 4:50:55 AM	69828
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/30/2022 4:50:55 AM	69828
Surr: DNOP	85.3	21-129		%Rec	1	8/30/2022 4:50:55 AM	69828
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/27/2022 6:53:00 PM	A90618
Surr: BFB	104	37.7-212		%Rec	1	8/27/2022 6:53:00 PM	A90618
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.018		mg/Kg	1	8/27/2022 6:53:00 PM	B90618
Toluene	ND	0.035		mg/Kg	1	8/27/2022 6:53:00 PM	B90618
Ethylbenzene	ND	0.035		mg/Kg	1	8/27/2022 6:53:00 PM	B90618
Xylenes, Total	ND	0.071		mg/Kg	1	8/27/2022 6:53:00 PM	B90618
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	8/27/2022 6:53:00 PM	B90618

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208G91**
Date Reported: **9/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EX - 43/A
Project: Roy SWD 3 **Collection Date:** 8/25/2022 12:08:00 PM
Lab ID: 2208G91-004 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	1000	60		mg/Kg	20	8/29/2022 8:16:44 PM	69832
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/30/2022 5:01:37 AM	69828
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/30/2022 5:01:37 AM	69828
Surr: DNOP	86.3	21-129		%Rec	1	8/30/2022 5:01:37 AM	69828
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	8/27/2022 7:12:00 PM	A90618
Surr: BFB	105	37.7-212		%Rec	1	8/27/2022 7:12:00 PM	A90618
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.022		mg/Kg	1	8/27/2022 7:12:00 PM	B90618
Toluene	ND	0.043		mg/Kg	1	8/27/2022 7:12:00 PM	B90618
Ethylbenzene	ND	0.043		mg/Kg	1	8/27/2022 7:12:00 PM	B90618
Xylenes, Total	ND	0.087		mg/Kg	1	8/27/2022 7:12:00 PM	B90618
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	8/27/2022 7:12:00 PM	B90618

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208G91**
Date Reported: **9/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EW - 20
Project: Roy SWD 3 **Collection Date:** 8/25/2022 12:10:00 PM
Lab ID: 2208G91-005 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	440	60		mg/Kg	20	8/29/2022 8:53:58 PM	69832
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/30/2022 5:12:19 AM	69828
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/30/2022 5:12:19 AM	69828
Surr: DNOP	83.3	21-129		%Rec	1	8/30/2022 5:12:19 AM	69828
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/27/2022 7:32:00 PM	A90618
Surr: BFB	108	37.7-212		%Rec	1	8/27/2022 7:32:00 PM	A90618
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.023		mg/Kg	1	8/27/2022 7:32:00 PM	B90618
Toluene	ND	0.047		mg/Kg	1	8/27/2022 7:32:00 PM	B90618
Ethylbenzene	ND	0.047		mg/Kg	1	8/27/2022 7:32:00 PM	B90618
Xylenes, Total	ND	0.094		mg/Kg	1	8/27/2022 7:32:00 PM	B90618
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	8/27/2022 7:32:00 PM	B90618

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208G91**
Date Reported: **9/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EW - 21
Project: Roy SWD 3 **Collection Date:** 8/25/2022 12:12:00 PM
Lab ID: 2208G91-006 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	980	60		mg/Kg	20	8/29/2022 9:06:22 PM	69832
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/30/2022 5:23:03 AM	69828
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/30/2022 5:23:03 AM	69828
Surr: DNOP	85.8	21-129		%Rec	1	8/30/2022 5:23:03 AM	69828
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	8/27/2022 7:52:00 PM	A90618
Surr: BFB	105	37.7-212		%Rec	1	8/27/2022 7:52:00 PM	A90618
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.021		mg/Kg	1	8/27/2022 7:52:00 PM	B90618
Toluene	ND	0.042		mg/Kg	1	8/27/2022 7:52:00 PM	B90618
Ethylbenzene	ND	0.042		mg/Kg	1	8/27/2022 7:52:00 PM	B90618
Xylenes, Total	ND	0.084		mg/Kg	1	8/27/2022 7:52:00 PM	B90618
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	8/27/2022 7:52:00 PM	B90618

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208G91**
Date Reported: **9/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** P - 1/A
Project: Roy SWD 3 **Collection Date:** 8/25/2022 1:00:00 PM
Lab ID: 2208G91-007 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	940	59		mg/Kg	20	8/29/2022 9:18:46 PM	69832
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	8/30/2022 5:33:49 AM	69828
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	8/30/2022 5:33:49 AM	69828
Surr: DNOP	83.6	21-129		%Rec	1	8/30/2022 5:33:49 AM	69828
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	8/27/2022 8:11:00 PM	A90618
Surr: BFB	105	37.7-212		%Rec	1	8/27/2022 8:11:00 PM	A90618
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.020		mg/Kg	1	8/27/2022 8:11:00 PM	B90618
Toluene	ND	0.039		mg/Kg	1	8/27/2022 8:11:00 PM	B90618
Ethylbenzene	ND	0.039		mg/Kg	1	8/27/2022 8:11:00 PM	B90618
Xylenes, Total	ND	0.078		mg/Kg	1	8/27/2022 8:11:00 PM	B90618
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	8/27/2022 8:11:00 PM	B90618

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208G91**
Date Reported: **9/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** P - 2/A
Project: Roy SWD 3 **Collection Date:** 8/25/2022 1:02:00 PM
Lab ID: 2208G91-008 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1000	60		mg/Kg	20	8/29/2022 9:31:11 PM	69832
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/30/2022 5:44:34 AM	69828
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/30/2022 5:44:34 AM	69828
Surr: DNOP	86.9	21-129		%Rec	1	8/30/2022 5:44:34 AM	69828
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/27/2022 8:31:00 PM	A90618
Surr: BFB	104	37.7-212		%Rec	1	8/27/2022 8:31:00 PM	A90618
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.018		mg/Kg	1	8/27/2022 8:31:00 PM	B90618
Toluene	ND	0.036		mg/Kg	1	8/27/2022 8:31:00 PM	B90618
Ethylbenzene	ND	0.036		mg/Kg	1	8/27/2022 8:31:00 PM	B90618
Xylenes, Total	ND	0.072		mg/Kg	1	8/27/2022 8:31:00 PM	B90618
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/27/2022 8:31:00 PM	B90618

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208G91**
Date Reported: **9/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** P - 3/A
Project: Roy SWD 3 **Collection Date:** 8/25/2022 1:04:00 PM
Lab ID: 2208G91-009 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	400	60		mg/Kg	20	8/30/2022 10:09:09 AM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/29/2022 12:29:39 PM	69815
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/29/2022 12:29:39 PM	69815
Surr: DNOP	93.2	21-129		%Rec	1	8/29/2022 12:29:39 PM	69815
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	8/27/2022 10:28:00 PM	C90618
Surr: BFB	99.3	37.7-212		%Rec	1	8/27/2022 10:28:00 PM	C90618
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.020		mg/Kg	1	8/27/2022 10:28:00 PM	D90618
Toluene	ND	0.041		mg/Kg	1	8/27/2022 10:28:00 PM	D90618
Ethylbenzene	ND	0.041		mg/Kg	1	8/27/2022 10:28:00 PM	D90618
Xylenes, Total	ND	0.082		mg/Kg	1	8/27/2022 10:28:00 PM	D90618
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	8/27/2022 10:28:00 PM	D90618

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G91**
09-Sep-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-69832** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **69832** RunNo: **90648**
Prep Date: **8/29/2022** Analysis Date: **8/29/2022** SeqNo: **3239411** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-69832** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **69832** RunNo: **90648**
Prep Date: **8/29/2022** Analysis Date: **8/29/2022** SeqNo: **3239412** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Sample ID: **MB-69846** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **69846** RunNo: **90664**
Prep Date: **8/30/2022** Analysis Date: **8/30/2022** SeqNo: **3241292** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-69846** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **69846** RunNo: **90664**
Prep Date: **8/30/2022** Analysis Date: **8/30/2022** SeqNo: **3241294** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G91**
09-Sep-22

Client: EOG
Project: Roy SWD 3

Sample ID: **LCS-69815** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **69815** RunNo: **90634**
Prep Date: **8/29/2022** Analysis Date: **8/29/2022** SeqNo: **3238730** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	15	50.00	0	77.4	64.4	127			
Surr: DNOP	3.7		5.000		73.9	21	129			

Sample ID: **MB-69815** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **69815** RunNo: **90634**
Prep Date: **8/29/2022** Analysis Date: **8/29/2022** SeqNo: **3238731** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		83.6	21	129			

Sample ID: **LCS-69828** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **69828** RunNo: **90634**
Prep Date: **8/29/2022** Analysis Date: **8/30/2022** SeqNo: **3239246** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	87.5	64.4	127			
Surr: DNOP	3.9		5.000		77.2	21	129			

Sample ID: **MB-69828** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **69828** RunNo: **90634**
Prep Date: **8/29/2022** Analysis Date: **8/30/2022** SeqNo: **3239248** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.9	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G91**
09-Sep-22

Client: EOG
Project: Roy SWD 3

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **A90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237682** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	72.3	137			
Surr: BFB	2300		1000		232	37.7	212			S

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **A90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237683** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	37.7	212			

Sample ID: **2.5ug gro lcs 2** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **C90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237706** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.1	72.3	137			
Surr: BFB	2200		1000		221	37.7	212			S

Sample ID: **mb 2** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **C90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237707** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G91**
09-Sep-22

Client: EOG
Project: Roy SWD 3

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B90618**	RunNo: **90618**
Prep Date:	Analysis Date: **8/27/2022**	SeqNo: **3237718** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.9	80	120			
Toluene	0.99	0.050	1.000	0	98.6	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B90618**	RunNo: **90618**
Prep Date:	Analysis Date: **8/27/2022**	SeqNo: **3237719** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **D90618**	RunNo: **90618**
Prep Date:	Analysis Date: **8/27/2022**	SeqNo: **3237742** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.2	80	120			
Toluene	0.96	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: **mb 2**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **D90618**	RunNo: **90618**
Prep Date:	Analysis Date: **8/27/2022**	SeqNo: **3237743** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2208G91 | RcptNo: 1

Received By: Tracy Casarrubias 8/27/2022 9:35:00 AM

Completed By: Isaiah Ortiz 8/27/2022 10:22:35 AM I-OL

Reviewed By: TMe 8/27

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑ IO

    # of preserved bottles checked for pH: 8.27.22 (<2 or >12 unless noted)
    Adjusted?
    Checked by:
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

    Person Notified: Date:
    By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
    Regarding:
    Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good	Not Present			
2	4.8	Good	Not Present			
3	5.6	Good	Not Present			

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☑ **Rush** 24 hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No
# of Coolers: 3
Cooler Temp(including CF): See Remarks

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208G91	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8-28-22	1202	soil	P-7/B	1x4oz Jar	ICE	001	X	X	X
	1204		P-8/B			002			
	1206		P-16/A			003			
	1208		EX-43/A			004			
	1210		EW-20			005			
	1212		EW-21			006			
	1300		P-1/A			007			
	1302		P-2/A			008			
↓	1304	↓	P-3/A	↓	↓	009	↓	↓	↓

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8-26-22	1215	J. Martinez			8/26/22	1215
8/27/22	900			Courier	8/27/22	9:35

Remarks: Bill to EOG Artesia
1.) 4.0 → -0 = 4.0°c
2.) 4.8 → 4.8°c
3.) 5.6 → 5.6°c

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 08, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2208G94

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/27/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 02, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2208G94**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W - 3A
Project: Roy SWD 3 **Collection Date:** 8/25/2022 1:26:00 PM
Lab ID: 2208G94-001 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	310	60		mg/Kg	20	8/30/2022 10:21:34 AM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/29/2022 12:41:29 PM	69815
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/29/2022 12:41:29 PM	69815
Surr: DNOP	84.0	21-129		%Rec	1	8/29/2022 12:41:29 PM	69815
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	8/27/2022 11:27:00 PM	C90618
Surr: BFB	102	37.7-212		%Rec	1	8/27/2022 11:27:00 PM	C90618
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	8/27/2022 11:27:00 PM	D90618
Toluene	ND	0.045		mg/Kg	1	8/27/2022 11:27:00 PM	D90618
Ethylbenzene	ND	0.045		mg/Kg	1	8/27/2022 11:27:00 PM	D90618
Xylenes, Total	ND	0.090		mg/Kg	1	8/27/2022 11:27:00 PM	D90618
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	8/27/2022 11:27:00 PM	D90618

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2208G94**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-11A
Project: Roy SWD 3 **Collection Date:** 8/25/2022 1:40:00 PM
Lab ID: 2208G94-002 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	990	60		mg/Kg	20	8/30/2022 10:33:58 AM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/29/2022 12:52:06 PM	69815
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/29/2022 12:52:06 PM	69815
Surr: DNOP	84.6	21-129		%Rec	1	8/29/2022 12:52:06 PM	69815
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	8/28/2022 12:25:00 AM	C90618
Surr: BFB	107	37.7-212		%Rec	1	8/28/2022 12:25:00 AM	C90618
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.020		mg/Kg	1	8/28/2022 12:25:00 AM	D90618
Toluene	ND	0.041		mg/Kg	1	8/28/2022 12:25:00 AM	D90618
Ethylbenzene	ND	0.041		mg/Kg	1	8/28/2022 12:25:00 AM	D90618
Xylenes, Total	ND	0.081		mg/Kg	1	8/28/2022 12:25:00 AM	D90618
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/28/2022 12:25:00 AM	D90618

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208G94**
Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W - 2/A
Project: Roy SWD 3 **Collection Date:** 8/25/2022 1:24:00 PM
Lab ID: 2208G94-003 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	900	60		mg/Kg	20	8/30/2022 10:46:23 AM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/29/2022 1:24:02 PM	69815
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/29/2022 1:24:02 PM	69815
Surr: DNOP	90.1	21-129		%Rec	1	8/29/2022 1:24:02 PM	69815
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	8/28/2022 12:44:00 AM	C90618
Surr: BFB	101	37.7-212		%Rec	1	8/28/2022 12:44:00 AM	C90618
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.022		mg/Kg	1	8/28/2022 12:44:00 AM	D90618
Toluene	ND	0.043		mg/Kg	1	8/28/2022 12:44:00 AM	D90618
Ethylbenzene	ND	0.043		mg/Kg	1	8/28/2022 12:44:00 AM	D90618
Xylenes, Total	ND	0.087		mg/Kg	1	8/28/2022 12:44:00 AM	D90618
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	8/28/2022 12:44:00 AM	D90618

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G94**
08-Sep-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-69846**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **69846**	RunNo: **90664**
Prep Date: **8/30/2022**	Analysis Date: **8/30/2022**	SeqNo: **3241292** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-69846**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **69846**	RunNo: **90664**
Prep Date: **8/30/2022**	Analysis Date: **8/30/2022**	SeqNo: **3241294** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G94**
08-Sep-22

Client: EOG
Project: Roy SWD 3

Sample ID: **LCS-69815** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **69815** RunNo: **90634**
Prep Date: **8/29/2022** Analysis Date: **8/29/2022** SeqNo: **3238730** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	15	50.00	0	77.4	64.4	127			
Surr: DNOP	3.7		5.000		73.9	21	129			

Sample ID: **MB-69815** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **69815** RunNo: **90634**
Prep Date: **8/29/2022** Analysis Date: **8/29/2022** SeqNo: **3238731** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		83.6	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G94**
08-Sep-22

Client: EOG
Project: Roy SWD 3

Sample ID: **2.5ug gro lcs 2** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **C90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237706** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.1	72.3	137			
Surr: BFB	2200		1000		221	37.7	212			S

Sample ID: **mb 2** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **C90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237707** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G94**
08-Sep-22

Client: EOG
Project: Roy SWD 3

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **D90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237742** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.2	80	120			
Toluene	0.96	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: **mb 2** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **D90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237743** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2208G94 | RcptNo: 1

Received By: Tracy Casarrubias 8/27/2022 9:35:00 AM

Completed By: Isaiah Ortiz 8/27/2022 10:38:54 AM I-Ox

Reviewed By: TMC 8/27

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑ TO

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 8/27 (<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good	Not Present			
2	4.8	Good	Not Present			
3	5.6	Good	Not Present			

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☑ **Rush** 24 hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No
# of Coolers: 3
Cooler Temp(including CF): See Remarks

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208G94	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8-25-22	1326	Soil	W-3A	1x4oz Jar	ICE	001	X	X	X
"	1340	"	B-1/A			002	"	"	"
"	1324	"	W-2/A			003	"	"	"

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8-26-22	12:27	J. Martinez			8/26/22	1227
8/26/22	1900				8/27/22	9:35

Remarks: Bill to EOG Artesia
1.) 4.0 — 4.0 °C
2.) 4.8 — 4.8 °C
3.) 5.6 — 5.6 °C

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 14, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2209420

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/9/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2209420**
Date Reported: **9/14/2022**

CLIENT: EOG **Client Sample ID:** EX-41/24
Project: Roy SWD 3 **Collection Date:** 9/7/2022 11:48:00 AM
Lab ID: 2209420-001 **Matrix:** MEOH (SOIL) **Received Date:** 9/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	9/12/2022 2:24:49 PM	70100
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/9/2022 2:14:51 PM	70068
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/9/2022 2:14:51 PM	70068
Surr: DNOP	75.1	21-129		%Rec	1	9/9/2022 2:14:51 PM	70068
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/9/2022 1:30:53 PM	G90918
Surr: BFB	97.7	37.7-212		%Rec	1	9/9/2022 1:30:53 PM	G90918
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	9/9/2022 1:30:53 PM	B90918
Toluene	ND	0.037		mg/Kg	1	9/9/2022 1:30:53 PM	B90918
Ethylbenzene	ND	0.037		mg/Kg	1	9/9/2022 1:30:53 PM	B90918
Xylenes, Total	ND	0.074		mg/Kg	1	9/9/2022 1:30:53 PM	B90918
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	9/9/2022 1:30:53 PM	B90918

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209420**
Date Reported: **9/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EX-41/23
Project: Roy SWD 3 **Collection Date:** 9/7/2022 11:44:00 AM
Lab ID: 2209420-002 **Matrix:** MEOH (SOIL) **Received Date:** 9/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	750	60		mg/Kg	20	9/12/2022 3:01:52 PM	70100
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/9/2022 2:25:33 PM	70068
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/9/2022 2:25:33 PM	70068
Surr: DNOP	83.6	21-129		%Rec	1	9/9/2022 2:25:33 PM	70068
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	9/9/2022 1:54:24 PM	G90918
Surr: BFB	101	37.7-212		%Rec	1	9/9/2022 1:54:24 PM	G90918
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	9/9/2022 1:54:24 PM	B90918
Toluene	ND	0.044		mg/Kg	1	9/9/2022 1:54:24 PM	B90918
Ethylbenzene	ND	0.044		mg/Kg	1	9/9/2022 1:54:24 PM	B90918
Xylenes, Total	ND	0.087		mg/Kg	1	9/9/2022 1:54:24 PM	B90918
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	9/9/2022 1:54:24 PM	B90918

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209420**
Date Reported: **9/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EX-40/18
Project: Roy SWD 3 **Collection Date:** 9/7/2022 11:34:00 AM
Lab ID: 2209420-003 **Matrix:** MEOH (SOIL) **Received Date:** 9/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	730	60		mg/Kg	20	9/12/2022 3:14:13 PM	70100
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/9/2022 2:36:16 PM	70068
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/9/2022 2:36:16 PM	70068
Surr: DNOP	81.7	21-129		%Rec	1	9/9/2022 2:36:16 PM	70068
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	9/9/2022 3:04:59 PM	G90918
Surr: BFB	101	37.7-212		%Rec	1	9/9/2022 3:04:59 PM	G90918
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	9/9/2022 3:04:59 PM	B90918
Toluene	ND	0.044		mg/Kg	1	9/9/2022 3:04:59 PM	B90918
Ethylbenzene	ND	0.044		mg/Kg	1	9/9/2022 3:04:59 PM	B90918
Xylenes, Total	ND	0.088		mg/Kg	1	9/9/2022 3:04:59 PM	B90918
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	9/9/2022 3:04:59 PM	B90918

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209420**
Date Reported: **9/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EX-40/19
Project: Roy SWD 3 **Collection Date:** 9/7/2022 11:36:00 AM
Lab ID: 2209420-004 **Matrix:** MEOH (SOIL) **Received Date:** 9/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	9/12/2022 3:26:34 PM	70100
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/9/2022 2:46:55 PM	70068
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/9/2022 2:46:55 PM	70068
Surr: DNOP	69.2	21-129		%Rec	1	9/9/2022 2:46:55 PM	70068
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/9/2022 3:28:30 PM	G90918
Surr: BFB	99.0	37.7-212		%Rec	1	9/9/2022 3:28:30 PM	G90918
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	9/9/2022 3:28:30 PM	B90918
Toluene	ND	0.036		mg/Kg	1	9/9/2022 3:28:30 PM	B90918
Ethylbenzene	ND	0.036		mg/Kg	1	9/9/2022 3:28:30 PM	B90918
Xylenes, Total	ND	0.072		mg/Kg	1	9/9/2022 3:28:30 PM	B90918
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	9/9/2022 3:28:30 PM	B90918

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209420**
Date Reported: **9/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-11/B
Project: Roy SWD 3 **Collection Date:** 9/7/2022 1:38:00 PM
Lab ID: 2209420-005 **Matrix:** MEOH (SOIL) **Received Date:** 9/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	9/12/2022 3:38:54 PM	70100
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/9/2022 2:57:33 PM	70068
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/9/2022 2:57:33 PM	70068
Surr: DNOP	84.9	21-129		%Rec	1	9/9/2022 2:57:33 PM	70068
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	9/9/2022 3:52:00 PM	G90918
Surr: BFB	100	37.7-212		%Rec	1	9/9/2022 3:52:00 PM	G90918
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	9/9/2022 3:52:00 PM	B90918
Toluene	ND	0.039		mg/Kg	1	9/9/2022 3:52:00 PM	B90918
Ethylbenzene	ND	0.039		mg/Kg	1	9/9/2022 3:52:00 PM	B90918
Xylenes, Total	ND	0.078		mg/Kg	1	9/9/2022 3:52:00 PM	B90918
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	9/9/2022 3:52:00 PM	B90918

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209420**

14-Sep-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-70100**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **70100**	RunNo: **90958**
Prep Date: **9/12/2022**	Analysis Date: **9/12/2022**	SeqNo: **3253203** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-70100**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **70100**	RunNo: **90958**
Prep Date: **9/12/2022**	Analysis Date: **9/12/2022**	SeqNo: **3253204** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209420**

14-Sep-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-69992**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69992**	RunNo: **90851**
Prep Date: **9/6/2022**	Analysis Date: **9/8/2022**	SeqNo: **3248817** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		83.0	21	129			

Sample ID: **MB-69992**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69992**	RunNo: **90851**
Prep Date: **9/6/2022**	Analysis Date: **9/8/2022**	SeqNo: **3248818** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		131	21	129			S

Sample ID: **LCS-70068**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **70068**	RunNo: **90851**
Prep Date: **9/9/2022**	Analysis Date: **9/9/2022**	SeqNo: **3250676** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	15	50.00	0	71.8	64.4	127			
Surr: DNOP	3.4		5.000		67.7	21	129			

Sample ID: **MB-70068**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70068**	RunNo: **90851**
Prep Date: **9/9/2022**	Analysis Date: **9/9/2022**	SeqNo: **3250684** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.0	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209420**

14-Sep-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G90918**	RunNo: **90918**
Prep Date:	Analysis Date: **9/9/2022**	SeqNo: **3251213** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.5	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G90918**	RunNo: **90918**
Prep Date:	Analysis Date: **9/9/2022**	SeqNo: **3251214** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.2	72.3	137			
Surr: BFB	2000		1000		199	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209420**

14-Sep-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B90918**	RunNo: **90918**
Prep Date:	Analysis Date: **9/9/2022**	SeqNo: **3251278** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.4	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B90918**	RunNo: **90918**
Prep Date:	Analysis Date: **9/9/2022**	SeqNo: **3251279** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.0	80	120			
Toluene	0.91	0.050	1.000	0	90.8	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.0	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2209420 | RcptNo: 1

Received By: Sean Livingston 9/9/2022 7:35:00 AM S Livingston

Completed By: Sean Livingston 9/9/2022 8:03:34 AM S Livingston

Reviewed By: 9-9-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JM 9/9/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good				

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☑ **Rush** 24-hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 2.1 +0=2.1°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2209420	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9-7-22	1148	soil	Ex-41/24	1(4oz)jar	ICE	001	X	X	X
	1144		Ex-41/23			002			
	1134		Ex-40/18			003			
	1136		Ex-40/19			004			
13~~38~~			B-11/B			005			

Date	Time	Relinquished by	Received by	Via	Date	Time
9/8/22	750	J. Martinez			9/8/22	750
9/8/22	1900				9/9/22	7:35

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chase Settle
EOG Resources, Inc.
104 South Fourth St.
Artesia, New Mexico 88210

Generated 3/29/2024 2:17:01 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-1057-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
3/29/2024 2:17:01 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Laboratory Job ID: 885-1057-1

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Definitions/Glossary

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EOG Resources, Inc.
Project: Roy SWD #3

Job ID: 885-1057-1

Job ID: 885-1057-1 Eurofins Albuquerque

Job Narrative
885-1057-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/13/2024 7:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-2B

Date Collected: 03/11/24 09:00
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-1
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/13/24 17:13	03/15/24 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*03/13/24 17:13*	*03/15/24 17:07*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/13/24 17:13	03/15/24 17:07	1
Ethylbenzene	ND		0.049		mg/Kg		03/13/24 17:13	03/15/24 17:07	1
Toluene	ND		0.049		mg/Kg		03/13/24 17:13	03/15/24 17:07	1
Xylenes, Total	ND		0.099		mg/Kg		03/13/24 17:13	03/15/24 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/13/24 17:13*	*03/15/24 17:07*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		03/14/24 13:05	03/14/24 21:05	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		03/14/24 13:05	03/14/24 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*69 - 147*	*03/14/24 13:05*	*03/14/24 21:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62		60		mg/Kg		03/18/24 08:30	03/18/24 10:29	20

Client Sample ID: P-4A

Date Collected: 03/11/24 09:10
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-2
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/13/24 17:13	03/15/24 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*03/13/24 17:13*	*03/15/24 17:31*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/13/24 17:13	03/15/24 17:31	1
Ethylbenzene	ND		0.049		mg/Kg		03/13/24 17:13	03/15/24 17:31	1
Toluene	ND		0.049		mg/Kg		03/13/24 17:13	03/15/24 17:31	1
Xylenes, Total	ND		0.098		mg/Kg		03/13/24 17:13	03/15/24 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*39 - 146*	*03/13/24 17:13*	*03/15/24 17:31*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		03/14/24 14:20	03/16/24 00:44	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-4A
Date Collected: 03/11/24 09:10
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-2
Matrix: Solid

Method: SW846 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/14/24 14:20	03/16/24 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*69 - 147*	*03/14/24 14:20*	*03/16/24 00:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		61		mg/Kg		03/18/24 08:30	03/18/24 10:41	20

Client Sample ID: P-5A
Date Collected: 03/11/24 09:12
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-3
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		03/13/24 17:13	03/15/24 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/13/24 17:13*	*03/15/24 18:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/13/24 17:13	03/15/24 18:41	1
Ethylbenzene	ND		0.048		mg/Kg		03/13/24 17:13	03/15/24 18:41	1
Toluene	ND		0.048		mg/Kg		03/13/24 17:13	03/15/24 18:41	1
Xylenes, Total	ND		0.096		mg/Kg		03/13/24 17:13	03/15/24 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*39 - 146*	*03/13/24 17:13*	*03/15/24 18:41*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		03/14/24 14:20	03/16/24 01:08	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/14/24 14:20	03/16/24 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*69 - 147*	*03/14/24 14:20*	*03/16/24 01:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**		59		mg/Kg		03/18/24 08:30	03/18/24 10:54	20

Client Sample ID: P-6A
Date Collected: 03/11/24 09:14
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-4
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		03/14/24 12:04	03/18/24 11:12	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-6A

Date Collected: 03/11/24 09:14
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-4
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 244*	*03/14/24 12:04*	*03/18/24 11:12*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/14/24 12:04	03/18/24 11:12	1
Ethylbenzene	ND		0.050		mg/Kg		03/14/24 12:04	03/18/24 11:12	1
Toluene	ND		0.050		mg/Kg		03/14/24 12:04	03/18/24 11:12	1
Xylenes, Total	ND		0.099		mg/Kg		03/14/24 12:04	03/18/24 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/14/24 12:04*	*03/18/24 11:12*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		03/15/24 15:38	03/19/24 10:57	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/15/24 15:38	03/19/24 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*69 - 147*	*03/15/24 15:38*	*03/19/24 10:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		03/18/24 08:30	03/18/24 11:06	20

Client Sample ID: P-8C

Date Collected: 03/11/24 09:20
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-5
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		03/14/24 12:04	03/18/24 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 244*	*03/14/24 12:04*	*03/18/24 11:36*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/14/24 12:04	03/18/24 11:36	1
Ethylbenzene	ND		0.050		mg/Kg		03/14/24 12:04	03/18/24 11:36	1
Toluene	ND		0.050		mg/Kg		03/14/24 12:04	03/18/24 11:36	1
Xylenes, Total	ND		0.099		mg/Kg		03/14/24 12:04	03/18/24 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/14/24 12:04*	*03/18/24 11:36*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		03/15/24 15:38	03/19/24 11:09	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/15/24 15:38	03/19/24 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*69 - 147*	*03/15/24 15:38*	*03/19/24 11:09*	*1*

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-8C
Date Collected: 03/11/24 09:20
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-5
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/18/24 08:30	03/18/24 11:18	20

Client Sample ID: EX-43B
Date Collected: 03/11/24 09:22
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-6
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/14/24 12:04	03/18/24 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/14/24 12:04*	*03/18/24 12:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/14/24 12:04	03/18/24 12:00	1
Ethylbenzene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 12:00	1
Toluene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 12:00	1
Xylenes, Total	ND		0.097		mg/Kg		03/14/24 12:04	03/18/24 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*39 - 146*	*03/14/24 12:04*	*03/18/24 12:00*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		03/15/24 15:38	03/19/24 11:21	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/15/24 15:38	03/19/24 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*69 - 147*	*03/15/24 15:38*	*03/19/24 11:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/18/24 08:30	03/18/24 11:31	20

Client Sample ID: EX-41A
Date Collected: 03/11/24 09:24
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-7
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/14/24 12:04	03/18/24 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/14/24 12:04*	*03/18/24 12:23*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/14/24 12:04	03/18/24 12:23	1
Ethylbenzene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 12:23	1
Toluene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 12:23	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: EX-41A

Date Collected: 03/11/24 09:24
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.099		mg/Kg		03/14/24 12:04	03/18/24 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/14/24 12:04*	*03/18/24 12:23*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		03/15/24 15:38	03/19/24 11:33	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/15/24 15:38	03/19/24 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*69 - 147*	*03/15/24 15:38*	*03/19/24 11:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**		60		mg/Kg		03/18/24 08:30	03/18/24 11:43	20

Client Sample ID: EX-40A

Date Collected: 03/11/24 10:00
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-8
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		03/14/24 12:04	03/18/24 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/14/24 12:04*	*03/18/24 12:47*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/14/24 12:04	03/18/24 12:47	1
Ethylbenzene	ND		0.047		mg/Kg		03/14/24 12:04	03/18/24 12:47	1
Toluene	ND		0.047		mg/Kg		03/14/24 12:04	03/18/24 12:47	1
Xylenes, Total	ND		0.095		mg/Kg		03/14/24 12:04	03/18/24 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*39 - 146*	*03/14/24 12:04*	*03/18/24 12:47*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		03/15/24 15:38	03/19/24 11:45	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/15/24 15:38	03/19/24 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*69 - 147*	*03/15/24 15:38*	*03/19/24 11:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**560**		60		mg/Kg		03/18/24 08:30	03/18/24 11:56	20

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: EX-38A
Date Collected: 03/11/24 10:02
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-9
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/14/24 12:04	03/18/24 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/14/24 12:04*	*03/18/24 13:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/14/24 12:04	03/18/24 13:10	1
Ethylbenzene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 13:10	1
Toluene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 13:10	1
Xylenes, Total	ND		0.097		mg/Kg		03/14/24 12:04	03/18/24 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*39 - 146*	*03/14/24 12:04*	*03/18/24 13:10*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		03/15/24 15:38	03/19/24 11:57	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/15/24 15:38	03/19/24 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*69 - 147*	*03/15/24 15:38*	*03/19/24 11:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/18/24 08:30	03/18/24 12:33	20

Client Sample ID: P-16B
Date Collected: 03/11/24 10:04
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-10
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/14/24 12:04	03/18/24 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/14/24 12:04*	*03/18/24 13:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/14/24 12:04	03/18/24 13:34	1
Ethylbenzene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 13:34	1
Toluene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 13:34	1
Xylenes, Total	ND		0.098		mg/Kg		03/14/24 12:04	03/18/24 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*39 - 146*	*03/14/24 12:04*	*03/18/24 13:34*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		03/15/24 15:38	03/19/24 12:10	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-16B

Lab Sample ID: 885-1057-10
Matrix: Solid
Date Collected: 03/11/24 10:04
Date Received: 03/13/24 07:35

Method: SW846 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/15/24 15:38	03/19/24 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*69 - 147*	*03/15/24 15:38*	*03/19/24 12:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		03/18/24 08:30	03/18/24 12:45	20

Client Sample ID: P-16B-W1

Lab Sample ID: 885-1057-11
Matrix: Solid
Date Collected: 03/11/24 13:02
Date Received: 03/13/24 07:35

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		03/14/24 12:04	03/18/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*03/14/24 12:04*	*03/18/24 13:57*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/14/24 12:04	03/18/24 13:57	1
Ethylbenzene	ND		0.048		mg/Kg		03/14/24 12:04	03/18/24 13:57	1
Toluene	ND		0.048		mg/Kg		03/14/24 12:04	03/18/24 13:57	1
Xylenes, Total	ND		0.096		mg/Kg		03/14/24 12:04	03/18/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*39 - 146*	*03/14/24 12:04*	*03/18/24 13:57*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		03/15/24 15:38	03/19/24 12:22	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		03/15/24 15:38	03/19/24 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*69 - 147*	*03/15/24 15:38*	*03/19/24 12:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		60		mg/Kg		03/18/24 08:30	03/18/24 12:57	20

Client Sample ID: P-16B-W2

Lab Sample ID: 885-1057-12
Matrix: Solid
Date Collected: 03/11/24 13:04
Date Received: 03/13/24 07:35

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		03/14/24 12:04	03/18/24 14:21	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-16B-W2

Date Collected: 03/11/24 13:04
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-12
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/14/24 12:04*	*03/18/24 14:21*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/14/24 12:04	03/18/24 14:21	1
Ethylbenzene	ND		0.048	mg/Kg		03/14/24 12:04	03/18/24 14:21	1
Toluene	ND		0.048	mg/Kg		03/14/24 12:04	03/18/24 14:21	1
Xylenes, Total	ND		0.096	mg/Kg		03/14/24 12:04	03/18/24 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/14/24 12:04*	*03/18/24 14:21*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		03/15/24 15:38	03/19/24 12:34	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		03/15/24 15:38	03/19/24 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*69 - 147*	*03/15/24 15:38*	*03/19/24 12:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61	mg/Kg		03/18/24 08:30	03/18/24 13:10	20

Client Sample ID: EX-38A-W1

Date Collected: 03/11/24 13:06
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-13
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		03/14/24 12:04	03/18/24 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 244*	*03/14/24 12:04*	*03/18/24 14:45*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/14/24 12:04	03/18/24 14:45	1
Ethylbenzene	ND		0.050	mg/Kg		03/14/24 12:04	03/18/24 14:45	1
Toluene	ND		0.050	mg/Kg		03/14/24 12:04	03/18/24 14:45	1
Xylenes, Total	ND		0.10	mg/Kg		03/14/24 12:04	03/18/24 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/14/24 12:04*	*03/18/24 14:45*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		03/15/24 15:38	03/19/24 12:59	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		03/15/24 15:38	03/19/24 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*69 - 147*	*03/15/24 15:38*	*03/19/24 12:59*	*1*

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: EX-38A-W1

Lab Sample ID: 885-1057-13
Matrix: Solid
Date Collected: 03/11/24 13:06
Date Received: 03/13/24 07:35

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		60		mg/Kg		03/18/24 08:30	03/18/24 13:22	20

Client Sample ID: EX-38A-W2

Lab Sample ID: 885-1057-14
Matrix: Solid
Date Collected: 03/11/24 13:08
Date Received: 03/13/24 07:35

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/14/24 12:04	03/18/24 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 244*	*03/14/24 12:04*	*03/18/24 15:32*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/14/24 12:04	03/18/24 15:32	1
Ethylbenzene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 15:32	1
Toluene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 15:32	1
Xylenes, Total	ND		0.097		mg/Kg		03/14/24 12:04	03/18/24 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*39 - 146*	*03/14/24 12:04*	*03/18/24 15:32*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		03/15/24 15:38	03/19/24 13:11	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/15/24 15:38	03/19/24 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*69 - 147*	*03/15/24 15:38*	*03/19/24 13:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	240		60		mg/Kg		03/18/24 08:30	03/18/24 13:34	20

Client Sample ID: EX-41A-W1

Lab Sample ID: 885-1057-15
Matrix: Solid
Date Collected: 03/11/24 13:10
Date Received: 03/13/24 07:35

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		03/14/24 12:04	03/18/24 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 244*	*03/14/24 12:04*	*03/18/24 15:55*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/14/24 12:04	03/18/24 15:55	1
Ethylbenzene	ND		0.048		mg/Kg		03/14/24 12:04	03/18/24 15:55	1
Toluene	ND		0.048		mg/Kg		03/14/24 12:04	03/18/24 15:55	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: EX-41A-W1

Lab Sample ID: 885-1057-15
Matrix: Solid
Date Collected: 03/11/24 13:10
Date Received: 03/13/24 07:35

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.096		mg/Kg		03/14/24 12:04	03/18/24 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/14/24 12:04*	*03/18/24 15:55*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		03/15/24 15:38	03/19/24 13:23	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		03/15/24 15:38	03/19/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*69 - 147*	*03/15/24 15:38*	*03/19/24 13:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		03/18/24 08:30	03/18/24 13:47	20

Client Sample ID: EX-43B-W1

Lab Sample ID: 885-1057-16
Matrix: Solid
Date Collected: 03/11/24 13:12
Date Received: 03/13/24 07:35

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		03/14/24 12:04	03/18/24 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 244*	*03/14/24 12:04*	*03/18/24 16:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/14/24 12:04	03/18/24 16:19	1
Ethylbenzene	ND		0.048		mg/Kg		03/14/24 12:04	03/18/24 16:19	1
Toluene	ND		0.048		mg/Kg		03/14/24 12:04	03/18/24 16:19	1
Xylenes, Total	ND		0.095		mg/Kg		03/14/24 12:04	03/18/24 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/14/24 12:04*	*03/18/24 16:19*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/15/24 15:38	03/19/24 13:36	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/15/24 15:38	03/19/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*69 - 147*	*03/15/24 15:38*	*03/19/24 13:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**410**		59		mg/Kg		03/18/24 08:30	03/18/24 13:59	20

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: EX-43B-W2

Lab Sample ID: 885-1057-17
Matrix: Solid
Date Collected: 03/11/24 13:30
Date Received: 03/13/24 07:35

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/14/24 12:04	03/18/24 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/14/24 12:04*	*03/18/24 16:42*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/14/24 12:04	03/18/24 16:42	1
Ethylbenzene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 16:42	1
Toluene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 16:42	1
Xylenes, Total	ND		0.098		mg/Kg		03/14/24 12:04	03/18/24 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*39 - 146*	*03/14/24 12:04*	*03/18/24 16:42*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		03/15/24 15:38	03/19/24 13:48	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/15/24 15:38	03/19/24 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*69 - 147*	*03/15/24 15:38*	*03/19/24 13:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		60		mg/Kg		03/18/24 08:30	03/18/24 14:11	20

Client Sample ID: P-8C-W1

Lab Sample ID: 885-1057-18
Matrix: Solid
Date Collected: 03/11/24 13:32
Date Received: 03/13/24 07:35

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/14/24 12:04	03/18/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/14/24 12:04*	*03/18/24 17:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/14/24 12:04	03/18/24 17:06	1
Ethylbenzene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 17:06	1
Toluene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 17:06	1
Xylenes, Total	ND		0.099		mg/Kg		03/14/24 12:04	03/18/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*39 - 146*	*03/14/24 12:04*	*03/18/24 17:06*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		03/15/24 15:38	03/19/24 14:00	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-8C-W1

Lab Sample ID: 885-1057-18
Matrix: Solid
Date Collected: 03/11/24 13:32
Date Received: 03/13/24 07:35

Method: SW846 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/15/24 15:38	03/19/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*69 - 147*	*03/15/24 15:38*	*03/19/24 14:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		03/18/24 08:30	03/18/24 14:24	20

Client Sample ID: P-8C-W2

Lab Sample ID: 885-1057-19
Matrix: Solid
Date Collected: 03/11/24 13:34
Date Received: 03/13/24 07:35

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/14/24 12:04	03/18/24 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/14/24 12:04*	*03/18/24 17:29*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/14/24 12:04	03/18/24 17:29	1
Ethylbenzene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 17:29	1
Toluene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 17:29	1
Xylenes, Total	ND		0.098		mg/Kg		03/14/24 12:04	03/18/24 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*39 - 146*	*03/14/24 12:04*	*03/18/24 17:29*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		03/15/24 15:38	03/19/24 14:12	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		03/15/24 15:38	03/19/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*69 - 147*	*03/15/24 15:38*	*03/19/24 14:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**440**		60		mg/Kg		03/18/24 08:30	03/18/24 15:01	20

Client Sample ID: P-6A-W-1

Lab Sample ID: 885-1057-20
Matrix: Solid
Date Collected: 03/11/24 13:36
Date Received: 03/13/24 07:35

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/14/24 12:04	03/18/24 17:52	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-6A-W-1

Date Collected: 03/11/24 13:36
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-20
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 244	03/14/24 12:04	03/18/24 17:52	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/14/24 12:04	03/18/24 17:52	1
Ethylbenzene	ND		0.049	mg/Kg		03/14/24 12:04	03/18/24 17:52	1
Toluene	ND		0.049	mg/Kg		03/14/24 12:04	03/18/24 17:52	1
Xylenes, Total	ND		0.098	mg/Kg		03/14/24 12:04	03/18/24 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		39 - 146	03/14/24 12:04	03/18/24 17:52	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		03/15/24 15:38	03/19/24 14:25	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		03/15/24 15:38	03/19/24 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		69 - 147	03/15/24 15:38	03/19/24 14:25	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		60	mg/Kg		03/18/24 08:30	03/18/24 15:38	20

Client Sample ID: P-6A-W-2

Date Collected: 03/11/24 13:38
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-21
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		03/14/24 12:04	03/18/24 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 244	03/14/24 12:04	03/18/24 18:16	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/14/24 12:04	03/18/24 18:16	1
Ethylbenzene	ND		0.049	mg/Kg		03/14/24 12:04	03/18/24 18:16	1
Toluene	ND		0.049	mg/Kg		03/14/24 12:04	03/18/24 18:16	1
Xylenes, Total	ND		0.098	mg/Kg		03/14/24 12:04	03/18/24 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		39 - 146	03/14/24 12:04	03/18/24 18:16	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		03/15/24 15:38	03/19/24 14:37	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		03/15/24 15:38	03/19/24 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		69 - 147	03/15/24 15:38	03/19/24 14:37	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-6A-W-2

Lab Sample ID: 885-1057-21
Matrix: Solid
Date Collected: 03/11/24 13:38
Date Received: 03/13/24 07:35

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		60		mg/Kg		03/18/24 10:55	03/18/24 14:20	20

Client Sample ID: P5A

Lab Sample ID: 885-1057-22
Matrix: Solid
Date Collected: 03/11/24 13:40
Date Received: 03/13/24 07:35

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/14/24 12:04	03/18/24 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 244*	*03/14/24 12:04*	*03/18/24 18:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/14/24 12:04	03/18/24 18:39	1
Ethylbenzene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 18:39	1
Toluene	ND		0.049		mg/Kg		03/14/24 12:04	03/18/24 18:39	1
Xylenes, Total	ND		0.097		mg/Kg		03/14/24 12:04	03/18/24 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/14/24 12:04*	*03/18/24 18:39*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		9.8		mg/Kg		03/15/24 15:38	03/19/24 14:49	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		03/15/24 15:38	03/19/24 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*69 - 147*	*03/15/24 15:38*	*03/19/24 14:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**320**		60		mg/Kg		03/18/24 10:55	03/18/24 14:57	20

Client Sample ID: P-4A-W1

Lab Sample ID: 885-1057-23
Matrix: Solid
Date Collected: 03/11/24 13:42
Date Received: 03/13/24 07:35

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		03/14/24 12:04	03/18/24 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/14/24 12:04*	*03/18/24 19:03*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/14/24 12:04	03/18/24 19:03	1
Ethylbenzene	ND		0.048		mg/Kg		03/14/24 12:04	03/18/24 19:03	1
Toluene	ND		0.048		mg/Kg		03/14/24 12:04	03/18/24 19:03	1

Client Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-4A-W1

Date Collected: 03/11/24 13:42
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-23
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.096		mg/Kg		03/14/24 12:04	03/18/24 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*39 - 146*	*03/14/24 12:04*	*03/18/24 19:03*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		03/15/24 15:38	03/19/24 15:01	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/15/24 15:38	03/19/24 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*69 - 147*	*03/15/24 15:38*	*03/19/24 15:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		60		mg/Kg		03/18/24 10:55	03/18/24 15:34	20

Client Sample ID: P-4A-W2

Date Collected: 03/11/24 13:44
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-24
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		03/14/24 15:53	03/16/24 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/14/24 15:53*	*03/16/24 11:29*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/14/24 15:53	03/16/24 11:29	1
Ethylbenzene	ND		0.048		mg/Kg		03/14/24 15:53	03/16/24 11:29	1
Toluene	ND		0.048		mg/Kg		03/14/24 15:53	03/16/24 11:29	1
Xylenes, Total	ND		0.095		mg/Kg		03/14/24 15:53	03/16/24 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*39 - 146*	*03/14/24 15:53*	*03/16/24 11:29*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		9.4		mg/Kg		03/18/24 10:59	03/18/24 14:37	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/18/24 10:59	03/18/24 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*111*		*69 - 147*	*03/18/24 10:59*	*03/18/24 14:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		60		mg/Kg		03/18/24 10:55	03/18/24 19:04	20

QC Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-1676/1-A
Matrix: Solid
Analysis Batch: 1854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1676

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		03/13/24 17:13	03/15/24 14:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*03/13/24 17:13*	*03/15/24 14:22*	*1*

Lab Sample ID: LCS 885-1676/2-A
Matrix: Solid
Analysis Batch: 1854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1676

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	22.6		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*201*		*15 - 244*

Lab Sample ID: MB 885-1704/1-A
Matrix: Solid
Analysis Batch: 1911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1704

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		03/14/24 12:04	03/18/24 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*03/14/24 12:04*	*03/18/24 10:49*	*1*

Lab Sample ID: LCS 885-1704/2-A
Matrix: Solid
Analysis Batch: 1911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1704

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	20.4		mg/Kg		82	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*200*		*15 - 244*

Lab Sample ID: 885-1057-4 MS
Matrix: Solid
Analysis Batch: 1911

Client Sample ID: P-6A
Prep Type: Total/NA
Prep Batch: 1704

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.6	18.8		mg/Kg		77	70 - 130		

QC Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-1057-4 MS
Matrix: Solid
Analysis Batch: 1911

Client Sample ID: P-6A
Prep Type: Total/NA
Prep Batch: 1704

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	193		15 - 244

Lab Sample ID: 885-1057-4 MSD
Matrix: Solid
Analysis Batch: 1911

Client Sample ID: P-6A
Prep Type: Total/NA
Prep Batch: 1704

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.5	19.5		mg/Kg		80	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	192		15 - 244

Lab Sample ID: MB 885-1739/1-A
Matrix: Solid
Analysis Batch: 1854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1739

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		03/14/24 15:53	03/16/24 02:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 244	03/14/24 15:53	03/16/24 02:07	1

Lab Sample ID: LCS 885-1739/2-A
Matrix: Solid
Analysis Batch: 1854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1739

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	20.6		mg/Kg		83	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	199		15 - 244

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-1676/1-A
Matrix: Solid
Analysis Batch: 1855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1676

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/13/24 17:13	03/15/24 14:22	1
Ethylbenzene	ND		0.050		mg/Kg		03/13/24 17:13	03/15/24 14:22	1
Toluene	ND		0.050		mg/Kg		03/13/24 17:13	03/15/24 14:22	1
Xylenes, Total	ND		0.10		mg/Kg		03/13/24 17:13	03/15/24 14:22	1

QC Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-1676/1-A
Matrix: Solid
Analysis Batch: 1855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1676

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146	03/13/24 17:13	03/15/24 14:22	1

Lab Sample ID: LCS 885-1676/3-A
Matrix: Solid
Analysis Batch: 1855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.892		mg/Kg		89	70 - 130
Ethylbenzene	1.00	0.915		mg/Kg		92	70 - 130
Toluene	1.00	0.911		mg/Kg		91	70 - 130
Xylenes, Total	3.00	2.78		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		39 - 146

Lab Sample ID: MB 885-1704/1-A
Matrix: Solid
Analysis Batch: 1912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1704

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/14/24 12:04	03/18/24 10:49	1
Ethylbenzene	ND		0.050	mg/Kg		03/14/24 12:04	03/18/24 10:49	1
Toluene	ND		0.050	mg/Kg		03/14/24 12:04	03/18/24 10:49	1
Xylenes, Total	ND		0.10	mg/Kg		03/14/24 12:04	03/18/24 10:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146	03/14/24 12:04	03/18/24 10:49	1

Lab Sample ID: LCS 885-1704/3-A
Matrix: Solid
Analysis Batch: 1912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.899		mg/Kg		90	70 - 130
Ethylbenzene	1.00	0.916		mg/Kg		92	70 - 130
Toluene	1.00	0.904		mg/Kg		90	70 - 130
Xylenes, Total	3.00	2.75		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		39 - 146

Lab Sample ID: 885-1057-5 MS
Matrix: Solid
Analysis Batch: 1912

Client Sample ID: P-8C
Prep Type: Total/NA
Prep Batch: 1704

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.980	0.843		mg/Kg		86	70 - 130
Ethylbenzene	ND		0.980	0.884		mg/Kg		90	70 - 130

QC Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-1057-5 MS
Matrix: Solid
Analysis Batch: 1912

Client Sample ID: P-8C
Prep Type: Total/NA
Prep Batch: 1704

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	ND		0.980	0.870		mg/Kg		89	70 - 130
Xylenes, Total	ND		2.94	2.67		mg/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*39 - 146*

Lab Sample ID: 885-1057-5 MSD
Matrix: Solid
Analysis Batch: 1912

Client Sample ID: P-8C
Prep Type: Total/NA
Prep Batch: 1704

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.980	0.817		mg/Kg		83	70 - 130	3	20
Ethylbenzene	ND		0.980	0.845		mg/Kg		86	70 - 130	5	20
Toluene	ND		0.980	0.830		mg/Kg		85	70 - 130	5	20
Xylenes, Total	ND		2.94	2.55		mg/Kg		87	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*39 - 146*

Lab Sample ID: MB 885-1739/1-A
Matrix: Solid
Analysis Batch: 1855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1739

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/14/24 15:53	03/16/24 02:07	1
Ethylbenzene	ND		0.050		mg/Kg		03/14/24 15:53	03/16/24 02:07	1
Toluene	ND		0.050		mg/Kg		03/14/24 15:53	03/16/24 02:07	1
Xylenes, Total	ND		0.10		mg/Kg		03/14/24 15:53	03/16/24 02:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*39 - 146*	*03/14/24 15:53*	*03/16/24 02:07*	*1*

Lab Sample ID: LCS 885-1739/3-A
Matrix: Solid
Analysis Batch: 1855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1739

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			1.00	0.909		mg/Kg		91	70 - 130
Ethylbenzene			1.00	0.931		mg/Kg		93	70 - 130
Toluene			1.00	0.928		mg/Kg		93	70 - 130
Xylenes, Total			3.00	2.80		mg/Kg		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*

QC Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-1721/1-A
Matrix: Solid
Analysis Batch: 1807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1721

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/14/24 13:05	03/15/24 13:05	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/14/24 13:05	03/15/24 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*69 - 147*	*03/14/24 13:05*	*03/15/24 13:05*	*1*

Lab Sample ID: LCS 885-1721/2-A
Matrix: Solid
Analysis Batch: 1777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1721

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	50.3		mg/Kg		101	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*108*		*69 - 147*

Lab Sample ID: MB 885-1732/1-A
Matrix: Solid
Analysis Batch: 1807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1732

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/14/24 14:20	03/15/24 15:43	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/14/24 14:20	03/15/24 15:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*119*		*69 - 147*	*03/14/24 14:20*	*03/15/24 15:43*	*1*

Lab Sample ID: LCS 885-1732/2-A
Matrix: Solid
Analysis Batch: 1807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1732

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	52.1		mg/Kg		104	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*103*		*69 - 147*

Lab Sample ID: MB 885-1811/1-A
Matrix: Solid
Analysis Batch: 1993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1811

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/15/24 15:38	03/19/24 10:33	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/15/24 15:38	03/19/24 10:33	1

QC Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-1811/1-A
Matrix: Solid
Analysis Batch: 1993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1811

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		69 - 147	03/15/24 15:38	03/19/24 10:33	1

Lab Sample ID: LCS 885-1811/2-A
Matrix: Solid
Analysis Batch: 1993

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1811

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	42.8		mg/Kg		86	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	107		69 - 147

Lab Sample ID: 885-1057-23 MS
Matrix: Solid
Analysis Batch: 1993

Client Sample ID: P-4A-W1
Prep Type: Total/NA
Prep Batch: 1811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		46.6	42.9		mg/Kg		92	44 - 136		

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	112		69 - 147

Lab Sample ID: 885-1057-23 MSD
Matrix: Solid
Analysis Batch: 1993

Client Sample ID: P-4A-W1
Prep Type: Total/NA
Prep Batch: 1811

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		48.5	43.3		mg/Kg		89	44 - 136	1	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	112		69 - 147

Lab Sample ID: MB 885-1847/1-A
Matrix: Solid
Analysis Batch: 1898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1847

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/18/24 10:59	03/18/24 14:13	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/18/24 10:59	03/18/24 14:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	122		69 - 147	03/18/24 10:59	03/18/24 14:13	1

QC Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 885-1847/2-A
Matrix: Solid
Analysis Batch: 1898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1847

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	48.9		mg/Kg		98	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*118*		*69 - 147*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-1823/1-A
Matrix: Solid
Analysis Batch: 1907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1823

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		03/18/24 08:30	03/18/24 10:04	1

Lab Sample ID: LCS 885-1823/2-A
Matrix: Solid
Analysis Batch: 1907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1823

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.5		mg/Kg		95	90 - 110		

Lab Sample ID: 885-1057-19 MS
Matrix: Solid
Analysis Batch: 1907

Client Sample ID: P-8C-W2
Prep Type: Total/NA
Prep Batch: 1823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	440		30.2	485	4	mg/Kg		165	50 - 150		

Lab Sample ID: 885-1057-19 MSD
Matrix: Solid
Analysis Batch: 1907

Client Sample ID: P-8C-W2
Prep Type: Total/NA
Prep Batch: 1823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	440		29.9	479	4	mg/Kg		147	50 - 150	1	20

Lab Sample ID: 885-1057-20 MS
Matrix: Solid
Analysis Batch: 1907

Client Sample ID: P-6A-W-1
Prep Type: Total/NA
Prep Batch: 1823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	420		30.1	428	4	mg/Kg		14	50 - 150		

Lab Sample ID: 885-1057-20 MSD
Matrix: Solid
Analysis Batch: 1907

Client Sample ID: P-6A-W-1
Prep Type: Total/NA
Prep Batch: 1823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	420		30.2	443	4	mg/Kg		62	50 - 150	3	20

QC Sample Results

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-1845/1-A
Matrix: Solid
Analysis Batch: 1909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1845

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		03/18/24 10:55	03/18/24 13:56	1

Lab Sample ID: LCS 885-1845/2-A
Matrix: Solid
Analysis Batch: 1909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1845

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.2		mg/Kg		94	90 - 110		

Lab Sample ID: 885-1057-21 MS
Matrix: Solid
Analysis Batch: 1909

Client Sample ID: P-6A-W-2
Prep Type: Total/NA
Prep Batch: 1845

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	240		30.2	266	4	mg/Kg		69	50 - 150		

Lab Sample ID: 885-1057-21 MSD
Matrix: Solid
Analysis Batch: 1909

Client Sample ID: P-6A-W-2
Prep Type: Total/NA
Prep Batch: 1845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	240		30.2	270	4	mg/Kg		83	50 - 150	2	20

Lab Sample ID: 885-1057-22 MS
Matrix: Solid
Analysis Batch: 1909

Client Sample ID: P5A
Prep Type: Total/NA
Prep Batch: 1845

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	320		29.8	364	4	mg/Kg		135	50 - 150		

Lab Sample ID: 885-1057-22 MSD
Matrix: Solid
Analysis Batch: 1909

Client Sample ID: P5A
Prep Type: Total/NA
Prep Batch: 1845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	320		29.8	347	4	mg/Kg		79	50 - 150	5	20

QC Association Summary

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

GC VOA

Prep Batch: 1676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-1	P-2B	Total/NA	Solid	5030C	
885-1057-2	P-4A	Total/NA	Solid	5030C	
885-1057-3	P-5A	Total/NA	Solid	5030C	
MB 885-1676/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-1676/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-1676/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 1704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-4	P-6A	Total/NA	Solid	5030C	
885-1057-5	P-8C	Total/NA	Solid	5030C	
885-1057-6	EX-43B	Total/NA	Solid	5030C	
885-1057-7	EX-41A	Total/NA	Solid	5030C	
885-1057-8	EX-40A	Total/NA	Solid	5030C	
885-1057-9	EX-38A	Total/NA	Solid	5030C	
885-1057-10	P-16B	Total/NA	Solid	5030C	
885-1057-11	P-16B-W1	Total/NA	Solid	5030C	
885-1057-12	P-16B-W2	Total/NA	Solid	5030C	
885-1057-13	EX-38A-W1	Total/NA	Solid	5030C	
885-1057-14	EX-38A-W2	Total/NA	Solid	5030C	
885-1057-15	EX-41A-W1	Total/NA	Solid	5030C	
885-1057-16	EX-43B-W1	Total/NA	Solid	5030C	
885-1057-17	EX-43B-W2	Total/NA	Solid	5030C	
885-1057-18	P-8C-W1	Total/NA	Solid	5030C	
885-1057-19	P-8C-W2	Total/NA	Solid	5030C	
885-1057-20	P-6A-W-1	Total/NA	Solid	5030C	
885-1057-21	P-6A-W-2	Total/NA	Solid	5030C	
885-1057-22	P5A	Total/NA	Solid	5030C	
885-1057-23	P-4A-W1	Total/NA	Solid	5030C	
MB 885-1704/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-1704/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-1704/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-1057-4 MS	P-6A	Total/NA	Solid	5030C	
885-1057-4 MSD	P-6A	Total/NA	Solid	5030C	
885-1057-5 MS	P-8C	Total/NA	Solid	5030C	
885-1057-5 MSD	P-8C	Total/NA	Solid	5030C	

Prep Batch: 1739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-24	P-4A-W2	Total/NA	Solid	5030C	
MB 885-1739/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-1739/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-1739/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 1854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-1	P-2B	Total/NA	Solid	8015D	1676
885-1057-2	P-4A	Total/NA	Solid	8015D	1676
885-1057-3	P-5A	Total/NA	Solid	8015D	1676
885-1057-24	P-4A-W2	Total/NA	Solid	8015D	1739
MB 885-1676/1-A	Method Blank	Total/NA	Solid	8015D	1676

QC Association Summary

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

GC VOA (Continued)

Analysis Batch: 1854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-1739/1-A	Method Blank	Total/NA	Solid	8015D	1739
LCS 885-1676/2-A	Lab Control Sample	Total/NA	Solid	8015D	1676
LCS 885-1739/2-A	Lab Control Sample	Total/NA	Solid	8015D	1739

Analysis Batch: 1855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-1	P-2B	Total/NA	Solid	8021B	1676
885-1057-2	P-4A	Total/NA	Solid	8021B	1676
885-1057-3	P-5A	Total/NA	Solid	8021B	1676
885-1057-24	P-4A-W2	Total/NA	Solid	8021B	1739
MB 885-1676/1-A	Method Blank	Total/NA	Solid	8021B	1676
MB 885-1739/1-A	Method Blank	Total/NA	Solid	8021B	1739
LCS 885-1676/3-A	Lab Control Sample	Total/NA	Solid	8021B	1676
LCS 885-1739/3-A	Lab Control Sample	Total/NA	Solid	8021B	1739

Analysis Batch: 1911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-4	P-6A	Total/NA	Solid	8015D	1704
885-1057-5	P-8C	Total/NA	Solid	8015D	1704
885-1057-6	EX-43B	Total/NA	Solid	8015D	1704
885-1057-7	EX-41A	Total/NA	Solid	8015D	1704
885-1057-8	EX-40A	Total/NA	Solid	8015D	1704
885-1057-9	EX-38A	Total/NA	Solid	8015D	1704
885-1057-10	P-16B	Total/NA	Solid	8015D	1704
885-1057-11	P-16B-W1	Total/NA	Solid	8015D	1704
885-1057-12	P-16B-W2	Total/NA	Solid	8015D	1704
885-1057-13	EX-38A-W1	Total/NA	Solid	8015D	1704
885-1057-14	EX-38A-W2	Total/NA	Solid	8015D	1704
885-1057-15	EX-41A-W1	Total/NA	Solid	8015D	1704
885-1057-16	EX-43B-W1	Total/NA	Solid	8015D	1704
885-1057-17	EX-43B-W2	Total/NA	Solid	8015D	1704
885-1057-18	P-8C-W1	Total/NA	Solid	8015D	1704
885-1057-19	P-8C-W2	Total/NA	Solid	8015D	1704
885-1057-20	P-6A-W-1	Total/NA	Solid	8015D	1704
885-1057-21	P-6A-W-2	Total/NA	Solid	8015D	1704
885-1057-22	P5A	Total/NA	Solid	8015D	1704
885-1057-23	P-4A-W1	Total/NA	Solid	8015D	1704
MB 885-1704/1-A	Method Blank	Total/NA	Solid	8015D	1704
LCS 885-1704/2-A	Lab Control Sample	Total/NA	Solid	8015D	1704
885-1057-4 MS	P-6A	Total/NA	Solid	8015D	1704
885-1057-4 MSD	P-6A	Total/NA	Solid	8015D	1704

Analysis Batch: 1912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-4	P-6A	Total/NA	Solid	8021B	1704
885-1057-5	P-8C	Total/NA	Solid	8021B	1704
885-1057-6	EX-43B	Total/NA	Solid	8021B	1704
885-1057-7	EX-41A	Total/NA	Solid	8021B	1704
885-1057-8	EX-40A	Total/NA	Solid	8021B	1704
885-1057-9	EX-38A	Total/NA	Solid	8021B	1704
885-1057-10	P-16B	Total/NA	Solid	8021B	1704

QC Association Summary

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

GC VOA (Continued)

Analysis Batch: 1912 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-11	P-16B-W1	Total/NA	Solid	8021B	1704
885-1057-12	P-16B-W2	Total/NA	Solid	8021B	1704
885-1057-13	EX-38A-W1	Total/NA	Solid	8021B	1704
885-1057-14	EX-38A-W2	Total/NA	Solid	8021B	1704
885-1057-15	EX-41A-W1	Total/NA	Solid	8021B	1704
885-1057-16	EX-43B-W1	Total/NA	Solid	8021B	1704
885-1057-17	EX-43B-W2	Total/NA	Solid	8021B	1704
885-1057-18	P-8C-W1	Total/NA	Solid	8021B	1704
885-1057-19	P-8C-W2	Total/NA	Solid	8021B	1704
885-1057-20	P-6A-W-1	Total/NA	Solid	8021B	1704
885-1057-21	P-6A-W-2	Total/NA	Solid	8021B	1704
885-1057-22	P5A	Total/NA	Solid	8021B	1704
885-1057-23	P-4A-W1	Total/NA	Solid	8021B	1704
MB 885-1704/1-A	Method Blank	Total/NA	Solid	8021B	1704
LCS 885-1704/3-A	Lab Control Sample	Total/NA	Solid	8021B	1704
885-1057-5 MS	P-8C	Total/NA	Solid	8021B	1704
885-1057-5 MSD	P-8C	Total/NA	Solid	8021B	1704

GC Semi VOA

Prep Batch: 1721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-1	P-2B	Total/NA	Solid	SHAKE	
MB 885-1721/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-1721/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 1732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-2	P-4A	Total/NA	Solid	SHAKE	
885-1057-3	P-5A	Total/NA	Solid	SHAKE	
MB 885-1732/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-1732/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 1777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-1	P-2B	Total/NA	Solid	8015D	1721
LCS 885-1721/2-A	Lab Control Sample	Total/NA	Solid	8015D	1721

Analysis Batch: 1807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-2	P-4A	Total/NA	Solid	8015D	1732
885-1057-3	P-5A	Total/NA	Solid	8015D	1732
MB 885-1721/1-A	Method Blank	Total/NA	Solid	8015D	1721
MB 885-1732/1-A	Method Blank	Total/NA	Solid	8015D	1732
LCS 885-1732/2-A	Lab Control Sample	Total/NA	Solid	8015D	1732

Prep Batch: 1811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-4	P-6A	Total/NA	Solid	SHAKE	
885-1057-5	P-8C	Total/NA	Solid	SHAKE	
885-1057-6	EX-43B	Total/NA	Solid	SHAKE	

QC Association Summary

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

GC Semi VOA (Continued)

Prep Batch: 1811 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-7	EX-41A	Total/NA	Solid	SHAKE	
885-1057-8	EX-40A	Total/NA	Solid	SHAKE	
885-1057-9	EX-38A	Total/NA	Solid	SHAKE	
885-1057-10	P-16B	Total/NA	Solid	SHAKE	
885-1057-11	P-16B-W1	Total/NA	Solid	SHAKE	
885-1057-12	P-16B-W2	Total/NA	Solid	SHAKE	
885-1057-13	EX-38A-W1	Total/NA	Solid	SHAKE	
885-1057-14	EX-38A-W2	Total/NA	Solid	SHAKE	
885-1057-15	EX-41A-W1	Total/NA	Solid	SHAKE	
885-1057-16	EX-43B-W1	Total/NA	Solid	SHAKE	
885-1057-17	EX-43B-W2	Total/NA	Solid	SHAKE	
885-1057-18	P-8C-W1	Total/NA	Solid	SHAKE	
885-1057-19	P-8C-W2	Total/NA	Solid	SHAKE	
885-1057-20	P-6A-W-1	Total/NA	Solid	SHAKE	
885-1057-21	P-6A-W-2	Total/NA	Solid	SHAKE	
885-1057-22	P5A	Total/NA	Solid	SHAKE	
885-1057-23	P-4A-W1	Total/NA	Solid	SHAKE	
MB 885-1811/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-1811/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-1057-23 MS	P-4A-W1	Total/NA	Solid	SHAKE	
885-1057-23 MSD	P-4A-W1	Total/NA	Solid	SHAKE	

Prep Batch: 1847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-24	P-4A-W2	Total/NA	Solid	SHAKE	
MB 885-1847/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-1847/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 1898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-24	P-4A-W2	Total/NA	Solid	8015D	1847
MB 885-1847/1-A	Method Blank	Total/NA	Solid	8015D	1847
LCS 885-1847/2-A	Lab Control Sample	Total/NA	Solid	8015D	1847

Analysis Batch: 1993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-4	P-6A	Total/NA	Solid	8015D	1811
885-1057-5	P-8C	Total/NA	Solid	8015D	1811
885-1057-6	EX-43B	Total/NA	Solid	8015D	1811
885-1057-7	EX-41A	Total/NA	Solid	8015D	1811
885-1057-8	EX-40A	Total/NA	Solid	8015D	1811
885-1057-9	EX-38A	Total/NA	Solid	8015D	1811
885-1057-10	P-16B	Total/NA	Solid	8015D	1811
885-1057-11	P-16B-W1	Total/NA	Solid	8015D	1811
885-1057-12	P-16B-W2	Total/NA	Solid	8015D	1811
885-1057-13	EX-38A-W1	Total/NA	Solid	8015D	1811
885-1057-14	EX-38A-W2	Total/NA	Solid	8015D	1811
885-1057-15	EX-41A-W1	Total/NA	Solid	8015D	1811
885-1057-16	EX-43B-W1	Total/NA	Solid	8015D	1811
885-1057-17	EX-43B-W2	Total/NA	Solid	8015D	1811
885-1057-18	P-8C-W1	Total/NA	Solid	8015D	1811

QC Association Summary

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

GC Semi VOA (Continued)

Analysis Batch: 1993 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-19	P-8C-W2	Total/NA	Solid	8015D	1811
885-1057-20	P-6A-W-1	Total/NA	Solid	8015D	1811
885-1057-21	P-6A-W-2	Total/NA	Solid	8015D	1811
885-1057-22	P5A	Total/NA	Solid	8015D	1811
885-1057-23	P-4A-W1	Total/NA	Solid	8015D	1811
MB 885-1811/1-A	Method Blank	Total/NA	Solid	8015D	1811
LCS 885-1811/2-A	Lab Control Sample	Total/NA	Solid	8015D	1811
885-1057-23 MS	P-4A-W1	Total/NA	Solid	8015D	1811
885-1057-23 MSD	P-4A-W1	Total/NA	Solid	8015D	1811

HPLC/IC

Prep Batch: 1823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-1	P-2B	Total/NA	Solid	300_Prep	
885-1057-2	P-4A	Total/NA	Solid	300_Prep	
885-1057-3	P-5A	Total/NA	Solid	300_Prep	
885-1057-4	P-6A	Total/NA	Solid	300_Prep	
885-1057-5	P-8C	Total/NA	Solid	300_Prep	
885-1057-6	EX-43B	Total/NA	Solid	300_Prep	
885-1057-7	EX-41A	Total/NA	Solid	300_Prep	
885-1057-8	EX-40A	Total/NA	Solid	300_Prep	
885-1057-9	EX-38A	Total/NA	Solid	300_Prep	
885-1057-10	P-16B	Total/NA	Solid	300_Prep	
885-1057-11	P-16B-W1	Total/NA	Solid	300_Prep	
885-1057-12	P-16B-W2	Total/NA	Solid	300_Prep	
885-1057-13	EX-38A-W1	Total/NA	Solid	300_Prep	
885-1057-14	EX-38A-W2	Total/NA	Solid	300_Prep	
885-1057-15	EX-41A-W1	Total/NA	Solid	300_Prep	
885-1057-16	EX-43B-W1	Total/NA	Solid	300_Prep	
885-1057-17	EX-43B-W2	Total/NA	Solid	300_Prep	
885-1057-18	P-8C-W1	Total/NA	Solid	300_Prep	
885-1057-19	P-8C-W2	Total/NA	Solid	300_Prep	
885-1057-20	P-6A-W-1	Total/NA	Solid	300_Prep	
MB 885-1823/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-1823/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-1057-19 MS	P-8C-W2	Total/NA	Solid	300_Prep	
885-1057-19 MSD	P-8C-W2	Total/NA	Solid	300_Prep	
885-1057-20 MS	P-6A-W-1	Total/NA	Solid	300_Prep	
885-1057-20 MSD	P-6A-W-1	Total/NA	Solid	300_Prep	

Prep Batch: 1845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-21	P-6A-W-2	Total/NA	Solid	300_Prep	
885-1057-22	P5A	Total/NA	Solid	300_Prep	
885-1057-23	P-4A-W1	Total/NA	Solid	300_Prep	
885-1057-24	P-4A-W2	Total/NA	Solid	300_Prep	
MB 885-1845/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-1845/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-1057-21 MS	P-6A-W-2	Total/NA	Solid	300_Prep	
885-1057-21 MSD	P-6A-W-2	Total/NA	Solid	300_Prep	

QC Association Summary

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

HPLC/IC (Continued)

Prep Batch: 1845 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-22 MS	P5A	Total/NA	Solid	300_Prep	
885-1057-22 MSD	P5A	Total/NA	Solid	300_Prep	

Analysis Batch: 1907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-1	P-2B	Total/NA	Solid	300.0	1823
885-1057-2	P-4A	Total/NA	Solid	300.0	1823
885-1057-3	P-5A	Total/NA	Solid	300.0	1823
885-1057-4	P-6A	Total/NA	Solid	300.0	1823
885-1057-5	P-8C	Total/NA	Solid	300.0	1823
885-1057-6	EX-43B	Total/NA	Solid	300.0	1823
885-1057-7	EX-41A	Total/NA	Solid	300.0	1823
885-1057-8	EX-40A	Total/NA	Solid	300.0	1823
885-1057-9	EX-38A	Total/NA	Solid	300.0	1823
885-1057-10	P-16B	Total/NA	Solid	300.0	1823
885-1057-11	P-16B-W1	Total/NA	Solid	300.0	1823
885-1057-12	P-16B-W2	Total/NA	Solid	300.0	1823
885-1057-13	EX-38A-W1	Total/NA	Solid	300.0	1823
885-1057-14	EX-38A-W2	Total/NA	Solid	300.0	1823
885-1057-15	EX-41A-W1	Total/NA	Solid	300.0	1823
885-1057-16	EX-43B-W1	Total/NA	Solid	300.0	1823
885-1057-17	EX-43B-W2	Total/NA	Solid	300.0	1823
885-1057-18	P-8C-W1	Total/NA	Solid	300.0	1823
885-1057-19	P-8C-W2	Total/NA	Solid	300.0	1823
885-1057-20	P-6A-W-1	Total/NA	Solid	300.0	1823
MB 885-1823/1-A	Method Blank	Total/NA	Solid	300.0	1823
LCS 885-1823/2-A	Lab Control Sample	Total/NA	Solid	300.0	1823
885-1057-19 MS	P-8C-W2	Total/NA	Solid	300.0	1823
885-1057-19 MSD	P-8C-W2	Total/NA	Solid	300.0	1823
885-1057-20 MS	P-6A-W-1	Total/NA	Solid	300.0	1823
885-1057-20 MSD	P-6A-W-1	Total/NA	Solid	300.0	1823

Analysis Batch: 1909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1057-21	P-6A-W-2	Total/NA	Solid	300.0	1845
885-1057-22	P5A	Total/NA	Solid	300.0	1845
885-1057-23	P-4A-W1	Total/NA	Solid	300.0	1845
885-1057-24	P-4A-W2	Total/NA	Solid	300.0	1845
MB 885-1845/1-A	Method Blank	Total/NA	Solid	300.0	1845
LCS 885-1845/2-A	Lab Control Sample	Total/NA	Solid	300.0	1845
885-1057-21 MS	P-6A-W-2	Total/NA	Solid	300.0	1845
885-1057-21 MSD	P-6A-W-2	Total/NA	Solid	300.0	1845
885-1057-22 MS	P5A	Total/NA	Solid	300.0	1845
885-1057-22 MSD	P5A	Total/NA	Solid	300.0	1845

Lab Chronicle

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-2B
Date Collected: 03/11/24 09:00
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1676	IMR	EET ALB	03/13/24 17:13
Total/NA	Analysis	8015D		1	1854	JP	EET ALB	03/15/24 17:07
Total/NA	Prep	5030C			1676	IMR	EET ALB	03/13/24 17:13
Total/NA	Analysis	8021B		1	1855	JP	EET ALB	03/15/24 17:07
Total/NA	Prep	SHAKE			1721	JU	EET ALB	03/14/24 13:05
Total/NA	Analysis	8015D		1	1777	JU	EET ALB	03/14/24 21:05
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 10:29

Client Sample ID: P-4A
Date Collected: 03/11/24 09:10
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1676	IMR	EET ALB	03/13/24 17:13
Total/NA	Analysis	8015D		1	1854	JP	EET ALB	03/15/24 17:31
Total/NA	Prep	5030C			1676	IMR	EET ALB	03/13/24 17:13
Total/NA	Analysis	8021B		1	1855	JP	EET ALB	03/15/24 17:31
Total/NA	Prep	SHAKE			1732	SB	EET ALB	03/14/24 14:20
Total/NA	Analysis	8015D		1	1807	JU	EET ALB	03/16/24 00:44
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 10:41

Client Sample ID: P-5A
Date Collected: 03/11/24 09:12
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1676	IMR	EET ALB	03/13/24 17:13
Total/NA	Analysis	8015D		1	1854	JP	EET ALB	03/15/24 18:41
Total/NA	Prep	5030C			1676	IMR	EET ALB	03/13/24 17:13
Total/NA	Analysis	8021B		1	1855	JP	EET ALB	03/15/24 18:41
Total/NA	Prep	SHAKE			1732	SB	EET ALB	03/14/24 14:20
Total/NA	Analysis	8015D		1	1807	JU	EET ALB	03/16/24 01:08
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 10:54

Client Sample ID: P-6A
Date Collected: 03/11/24 09:14
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 11:12

Lab Chronicle

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-6A
Date Collected: 03/11/24 09:14
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 11:12
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 10:57
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 11:06

Client Sample ID: P-8C
Date Collected: 03/11/24 09:20
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 11:36
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 11:36
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 11:09
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 11:18

Client Sample ID: EX-43B
Date Collected: 03/11/24 09:22
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 12:00
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 12:00
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 11:21
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 11:31

Client Sample ID: EX-41A
Date Collected: 03/11/24 09:24
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 12:23
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 12:23

Lab Chronicle

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: EX-41A
Date Collected: 03/11/24 09:24
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 11:33
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 11:43

Client Sample ID: EX-40A
Date Collected: 03/11/24 10:00
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 12:47
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 12:47
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 11:45
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 11:56

Client Sample ID: EX-38A
Date Collected: 03/11/24 10:02
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 13:10
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 13:10
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 11:57
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 12:33

Client Sample ID: P-16B
Date Collected: 03/11/24 10:04
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 13:34
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 13:34
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 12:10

Lab Chronicle

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-16B
Date Collected: 03/11/24 10:04
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 12:45

Client Sample ID: P-16B-W1
Date Collected: 03/11/24 13:02
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 13:57
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 13:57
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 12:22
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 12:57

Client Sample ID: P-16B-W2
Date Collected: 03/11/24 13:04
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 14:21
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 14:21
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 12:34
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 13:10

Client Sample ID: EX-38A-W1
Date Collected: 03/11/24 13:06
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 14:45
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 14:45
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 12:59
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 13:22

Lab Chronicle

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: EX-38A-W2
Lab Sample ID: 885-1057-14
Date Collected: 03/11/24 13:08
Matrix: Solid
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 15:32
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 15:32
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 13:11
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 13:34

Client Sample ID: EX-41A-W1
Lab Sample ID: 885-1057-15
Date Collected: 03/11/24 13:10
Matrix: Solid
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 15:55
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 15:55
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 13:23
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 13:47

Client Sample ID: EX-43B-W1
Lab Sample ID: 885-1057-16
Date Collected: 03/11/24 13:12
Matrix: Solid
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 16:19
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 16:19
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 13:36
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 13:59

Client Sample ID: EX-43B-W2
Lab Sample ID: 885-1057-17
Date Collected: 03/11/24 13:30
Matrix: Solid
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 16:42

Lab Chronicle

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: EX-43B-W2

Lab Sample ID: 885-1057-17
Matrix: Solid
Date Collected: 03/11/24 13:30
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 16:42
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 13:48
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 14:11

Client Sample ID: P-8C-W1

Lab Sample ID: 885-1057-18
Matrix: Solid
Date Collected: 03/11/24 13:32
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 17:06
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 17:06
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 14:00
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 14:24

Client Sample ID: P-8C-W2

Lab Sample ID: 885-1057-19
Matrix: Solid
Date Collected: 03/11/24 13:34
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 17:29
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 17:29
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 14:12
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 15:01

Client Sample ID: P-6A-W-1

Lab Sample ID: 885-1057-20
Matrix: Solid
Date Collected: 03/11/24 13:36
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 17:52
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 17:52

Lab Chronicle

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-6A-W-1
Date Collected: 03/11/24 13:36
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 14:25
Total/NA	Prep	300_Prep			1823	JT	EET ALB	03/18/24 08:30
Total/NA	Analysis	300.0		20	1907	KB	EET ALB	03/18/24 15:38

Client Sample ID: P-6A-W-2
Date Collected: 03/11/24 13:38
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 18:16
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 18:16
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 14:37
Total/NA	Prep	300_Prep			1845	JT	EET ALB	03/18/24 10:55
Total/NA	Analysis	300.0		20	1909	KB	EET ALB	03/18/24 14:20

Client Sample ID: P5A
Date Collected: 03/11/24 13:40
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 18:39
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 18:39
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 14:49
Total/NA	Prep	300_Prep			1845	JT	EET ALB	03/18/24 10:55
Total/NA	Analysis	300.0		20	1909	KB	EET ALB	03/18/24 14:57

Client Sample ID: P-4A-W1
Date Collected: 03/11/24 13:42
Date Received: 03/13/24 07:35

Lab Sample ID: 885-1057-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8015D		1	1911	JP	EET ALB	03/18/24 19:03
Total/NA	Prep	5030C			1704	JP	EET ALB	03/14/24 12:04
Total/NA	Analysis	8021B		1	1912	JP	EET ALB	03/18/24 19:03
Total/NA	Prep	SHAKE			1811	SB	EET ALB	03/15/24 15:38
Total/NA	Analysis	8015D		1	1993	JU	EET ALB	03/19/24 15:01

Lab Chronicle

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Client Sample ID: P-4A-W1

Lab Sample ID: 885-1057-23
Matrix: Solid
Date Collected: 03/11/24 13:42
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			1845	JT	EET ALB	03/18/24 10:55
Total/NA	Analysis	300.0		20	1909	KB	EET ALB	03/18/24 15:34

Client Sample ID: P-4A-W2

Lab Sample ID: 885-1057-24
Matrix: Solid
Date Collected: 03/11/24 13:44
Date Received: 03/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1739	JP	EET ALB	03/14/24 15:53
Total/NA	Analysis	8015D		1	1854	JP	EET ALB	03/16/24 11:29
Total/NA	Prep	5030C			1739	JP	EET ALB	03/14/24 15:53
Total/NA	Analysis	8021B		1	1855	JP	EET ALB	03/16/24 11:29
Total/NA	Prep	SHAKE			1847	JU	EET ALB	03/18/24 10:59
Total/NA	Analysis	8015D		1	1898	JU	EET ALB	03/18/24 14:37
Total/NA	Prep	300_Prep			1845	JT	EET ALB	03/18/24 10:55
Total/NA	Analysis	300.0		20	1909	KB	EET ALB	03/18/24 19:04

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: EOG Resources, Inc.
Project/Site: Roy SWD #3

Job ID: 885-1057-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:

☑ Standard ☑ **Rush** 5 DAY TAT

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ~~☐ Yes~~ ☐ No

# of Coolers: 1 4 oz

Cooler Temp(including CF): 0.1+0.2=0.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
3/11/24	0900	Soil	P-2B	1x4oz jar	ICE		X	X	X
	0916		P-4A						
	0917		P-5A						
	0914		P-6A						
	0920		P-8C						
	0922		EX-43B						
	0921		EX-41A						
	1600		EX-40A						
	1002		EX-38A						
	1004		P-16B						
	1302		P-16B-W1						
	1364		P-16B-W2						

885-1057 COC

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/12/24	0850				3/12/24	850
3/12/24	1900			courier	3/13/24	7:35

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

3123/13/24

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:

☑ Standard ☑ **Rush** 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1 Yosi

Cooler Temp(including CF): 0.1+0.2=0.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
3/11/24	1306	Soil	Ex-38A-W1	1x 4oz Jar	ICE		X	X	X
	1308		Ex-38A-W2						
	1310		Ex-41A-W1						
	1312		Ex-43B-W1						
	1330		Ex-43B-W2						
	1332		P-8C-W1						
	1334		P-8C-W2						
	1336		P-6A-W1						
	1338		P-6A-W2						
	1340		P-5A						
	1342		P-4A-W1						
	1344		P-4A-W2						

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/12/24	0850				3/12/24	850
3/13/24	1900			Courier	3/13/24	7:35

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Received by OCD: 6/19/2025 8:41:42 AM

Login Sample Receipt Checklist

Client: EOG Resources, Inc. Job Number: 885-1057-1

Login Number: 1057 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 4/26/2024 4:27:31 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-3108-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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4/26/2024 4:27:31 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-3108-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-3108-1
Project/Site: Roy SWD #3

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc Job ID: 885-3108-1
Project: Roy SWD #3

Job ID: 885-3108-1 **Eurofins Albuquerque**

Job Narrative
885-3108-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/19/2024 7:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-3793 recovered outside acceptance criteria, low biased, for Di-n-octyl phthalate (Surr). Samples that have Di-n-octyl phthalate (surrogate) recovery in are still being reported .The following samples are associated PWA-9 (885-3108-9), PWA-10 (885-3108-10), PBA-1 (885-3108-11), PBA-2 (885-3108-12), PBA-3 (885-3108-13), PBA-4 (885-3108-14), PBA-5 (885-3108-15), PBA-6 (885-3108-16), PBA-7 (885-3108-17), PBA-8 (885-3108-18), PBA-9 (885-3108-19), PBA-10 (885-3108-20), PBA-11 (885-3108-21), PBA-12 (885-3108-22), PBA-13 (885-3108-23), PBA-14 (885-3108-24), PBA-15 (885-3108-25), P-2B-W1 (885-3108-26), P-2B-W2 (885-3108-27), P-2B-W3 (885-3108-28), (CCV 885-3793/1), (CCV 885-3793/2), (CCV 885-3793/27), (LCS 885-3678/2-A), (MB 885-3678/1-A), (885-3108-A-28-C MS) and (885-3108-A-28-D MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-1

Date Collected: 04/17/24 09:40
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-1

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 10:55	04/22/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 244*	*04/19/24 10:55*	*04/22/24 15:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 10:55	04/22/24 15:11	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 10:55	04/22/24 15:11	1
Toluene	ND		0.049		mg/Kg		04/19/24 10:55	04/22/24 15:11	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 10:55	04/22/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*39 - 146*	*04/19/24 10:55*	*04/22/24 15:11*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		04/19/24 13:29	04/22/24 14:02	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		04/19/24 13:29	04/22/24 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*04/19/24 13:29*	*04/22/24 14:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		59		mg/Kg		04/22/24 14:40	04/23/24 17:06	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-2

Date Collected: 04/17/24 09:44
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-2

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 10:55	04/22/24 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 244*	*04/19/24 10:55*	*04/22/24 15:35*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/22/24 15:35	1
Ethylbenzene	ND		0.050		mg/Kg		04/19/24 10:55	04/22/24 15:35	1
Toluene	ND		0.050		mg/Kg		04/19/24 10:55	04/22/24 15:35	1
Xylenes, Total	ND		0.10		mg/Kg		04/19/24 10:55	04/22/24 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*39 - 146*	*04/19/24 10:55*	*04/22/24 15:35*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		04/19/24 13:29	04/22/24 14:14	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/19/24 13:29	04/22/24 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*04/19/24 13:29*	*04/22/24 14:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**		60		mg/Kg		04/22/24 14:40	04/23/24 17:18	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-3

Date Collected: 04/17/24 09:46
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-3

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 10:55	04/22/24 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*15 - 244*	*04/19/24 10:55*	*04/22/24 15:59*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/22/24 15:59	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 10:55	04/22/24 15:59	1
Toluene	ND		0.049		mg/Kg		04/19/24 10:55	04/22/24 15:59	1
Xylenes, Total	ND		0.098		mg/Kg		04/19/24 10:55	04/22/24 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*04/19/24 10:55*	*04/22/24 15:59*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		04/19/24 13:29	04/22/24 16:54	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		04/19/24 13:29	04/22/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*04/19/24 13:29*	*04/22/24 16:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		59		mg/Kg		04/22/24 14:40	04/23/24 17:30	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-4

Date Collected: 04/17/24 09:50
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-4

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 10:55	04/22/24 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*15 - 244*	*04/19/24 10:55*	*04/22/24 16:23*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/22/24 16:23	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 10:55	04/22/24 16:23	1
Toluene	ND		0.049		mg/Kg		04/19/24 10:55	04/22/24 16:23	1
Xylenes, Total	ND		0.099		mg/Kg		04/19/24 10:55	04/22/24 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 10:55*	*04/22/24 16:23*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		04/19/24 13:29	04/22/24 17:07	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/19/24 13:29	04/22/24 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*68*		*62 - 134*	*04/19/24 13:29*	*04/22/24 17:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		60		mg/Kg		04/22/24 14:40	04/23/24 17:43	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-5

Date Collected: 04/17/24 09:52
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-5

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 10:55	04/22/24 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*15 - 244*	*04/19/24 10:55*	*04/22/24 17:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/23/24 16:10	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 10:55	04/23/24 16:10	1
Toluene	ND		0.049		mg/Kg		04/19/24 10:55	04/23/24 16:10	1
Xylenes, Total	ND		0.099		mg/Kg		04/19/24 10:55	04/23/24 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*04/19/24 10:55*	*04/23/24 16:10*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		04/19/24 14:28	04/22/24 17:19	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		04/19/24 14:28	04/22/24 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*71*		*62 - 134*	*04/19/24 14:28*	*04/22/24 17:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		60		mg/Kg		04/22/24 14:40	04/23/24 18:20	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-6

Date Collected: 04/17/24 09:56
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-6

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 10:55	04/22/24 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*15 - 244*	*04/19/24 10:55*	*04/22/24 17:37*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/23/24 16:32	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 10:55	04/23/24 16:32	1
Toluene	ND		0.049		mg/Kg		04/19/24 10:55	04/23/24 16:32	1
Xylenes, Total	ND		0.098		mg/Kg		04/19/24 10:55	04/23/24 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*04/19/24 10:55*	*04/23/24 16:32*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		04/19/24 14:28	04/22/24 17:32	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/19/24 14:28	04/22/24 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*04/19/24 14:28*	*04/22/24 17:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		04/22/24 14:40	04/23/24 18:32	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-7

Date Collected: 04/17/24 10:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-7

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 10:55	04/22/24 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*15 - 244*	*04/19/24 10:55*	*04/22/24 18:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/23/24 16:54	1
Ethylbenzene	ND		0.050		mg/Kg		04/19/24 10:55	04/23/24 16:54	1
Toluene	ND		0.050		mg/Kg		04/19/24 10:55	04/23/24 16:54	1
Xylenes, Total	ND		0.099		mg/Kg		04/19/24 10:55	04/23/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 10:55*	*04/23/24 16:54*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		04/19/24 14:28	04/22/24 17:46	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/19/24 14:28	04/22/24 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*76*		*62 - 134*	*04/19/24 14:28*	*04/22/24 17:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		60		mg/Kg		04/22/24 16:51	04/23/24 19:34	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-8

Date Collected: 04/17/24 10:02
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-8
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 10:55	04/22/24 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 244*	*04/19/24 10:55*	*04/22/24 18:24*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/23/24 17:16	1
Ethylbenzene	ND		0.050		mg/Kg		04/19/24 10:55	04/23/24 17:16	1
Toluene	ND		0.050		mg/Kg		04/19/24 10:55	04/23/24 17:16	1
Xylenes, Total	ND		0.099		mg/Kg		04/19/24 10:55	04/23/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 10:55*	*04/23/24 17:16*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		04/19/24 14:28	04/22/24 17:59	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/19/24 14:28	04/22/24 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*76*		*62 - 134*	*04/19/24 14:28*	*04/22/24 17:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		04/22/24 16:51	04/23/24 20:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-9

Date Collected: 04/17/24 10:06
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-9

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/23/24 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 244*	*04/19/24 15:29*	*04/23/24 20:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 15:29	04/23/24 20:17	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 20:17	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 20:17	1
Xylenes, Total	ND		0.098		mg/Kg		04/19/24 15:29	04/23/24 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/23/24 20:17*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		04/22/24 13:39	04/23/24 11:43	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/22/24 13:39	04/23/24 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*04/22/24 13:39*	*04/23/24 11:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**320**		60		mg/Kg		04/22/24 16:51	04/23/24 20:48	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-10

Date Collected: 04/17/24 10:10
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-10

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/23/24 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/23/24 21:25*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 15:29	04/23/24 21:25	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 21:25	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 21:25	1
Xylenes, Total	ND		0.098		mg/Kg		04/19/24 15:29	04/23/24 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/23/24 21:25*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		04/22/24 13:39	04/23/24 11:56	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		04/22/24 13:39	04/23/24 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*122*		*62 - 134*	*04/22/24 13:39*	*04/23/24 11:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**410**		60		mg/Kg		04/22/24 16:51	04/23/24 21:00	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-1

Date Collected: 04/17/24 12:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-11

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		04/19/24 15:29	04/23/24 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/23/24 22:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/23/24 22:33	1
Ethylbenzene	ND		0.047		mg/Kg		04/19/24 15:29	04/23/24 22:33	1
Toluene	ND		0.047		mg/Kg		04/19/24 15:29	04/23/24 22:33	1
Xylenes, Total	ND		0.095		mg/Kg		04/19/24 15:29	04/23/24 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 15:29*	*04/23/24 22:33*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		04/22/24 13:39	04/23/24 12:09	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*04/22/24 13:39*	*04/23/24 12:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		04/22/24 16:51	04/23/24 21:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-2

Date Collected: 04/17/24 12:02
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-12

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/23/24 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 244*	*04/19/24 15:29*	*04/23/24 22:56*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 15:29	04/23/24 22:56	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 22:56	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 22:56	1
Xylenes, Total	ND		0.098		mg/Kg		04/19/24 15:29	04/23/24 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/23/24 22:56*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		04/22/24 13:39	04/23/24 12:21	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/22/24 13:39	04/23/24 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*70*		*62 - 134*	*04/22/24 13:39*	*04/23/24 12:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		04/22/24 16:51	04/23/24 21:25	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-3

Date Collected: 04/17/24 12:04
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-13

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		04/19/24 15:29	04/23/24 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*04/19/24 15:29*	*04/23/24 23:18*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/23/24 23:18	1
Ethylbenzene	ND		0.048		mg/Kg		04/19/24 15:29	04/23/24 23:18	1
Toluene	ND		0.048		mg/Kg		04/19/24 15:29	04/23/24 23:18	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 15:29	04/23/24 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 15:29*	*04/23/24 23:18*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		04/22/24 13:39	04/23/24 12:34	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		04/22/24 13:39	04/23/24 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*04/22/24 13:39*	*04/23/24 12:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60		mg/Kg		04/22/24 16:51	04/23/24 22:02	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-4

Date Collected: 04/17/24 12:08
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-14

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/23/24 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/23/24 23:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 15:29	04/23/24 23:41	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 23:41	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 23:41	1
Xylenes, Total	ND		0.099		mg/Kg		04/19/24 15:29	04/23/24 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/23/24 23:41*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		04/22/24 13:39	04/23/24 20:16	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*04/22/24 13:39*	*04/23/24 20:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		04/22/24 16:51	04/23/24 22:14	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-5

Date Collected: 04/17/24 12:14
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-15

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/24/24 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 244*	*04/19/24 15:29*	*04/24/24 00:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 00:04	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 00:04	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 00:04	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 15:29	04/24/24 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*39 - 146*	*04/19/24 15:29*	*04/24/24 00:04*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		04/22/24 13:39	04/23/24 20:40	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		04/22/24 13:39	04/23/24 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*04/22/24 13:39*	*04/23/24 20:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		60		mg/Kg		04/22/24 16:51	04/23/24 22:27	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-6

Date Collected: 04/17/24 12:16
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-16

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		04/19/24 15:29	04/24/24 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/24/24 00:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 00:26	1
Ethylbenzene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 00:26	1
Toluene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 00:26	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 15:29	04/24/24 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 15:29*	*04/24/24 00:26*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		04/22/24 13:39	04/23/24 21:05	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*04/22/24 13:39*	*04/23/24 21:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**330**		60		mg/Kg		04/22/24 16:51	04/23/24 22:39	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-7

Date Collected: 04/17/24 12:24
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-17

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		04/19/24 15:29	04/24/24 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*04/19/24 15:29*	*04/24/24 00:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		04/19/24 15:29	04/24/24 00:49	1
Ethylbenzene	ND		0.046		mg/Kg		04/19/24 15:29	04/24/24 00:49	1
Toluene	ND		0.046		mg/Kg		04/19/24 15:29	04/24/24 00:49	1
Xylenes, Total	ND		0.092		mg/Kg		04/19/24 15:29	04/24/24 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*39 - 146*	*04/19/24 15:29*	*04/24/24 00:49*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		04/22/24 13:39	04/23/24 13:25	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		04/22/24 13:39	04/23/24 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*114*		*62 - 134*	*04/22/24 13:39*	*04/23/24 13:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		04/22/24 16:51	04/23/24 22:51	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-8
Date Collected: 04/17/24 12:30
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-18
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		04/19/24 15:29	04/24/24 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 244*	*04/19/24 15:29*	*04/24/24 01:12*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 01:12	1
Ethylbenzene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 01:12	1
Toluene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 01:12	1
Xylenes, Total	ND		0.096		mg/Kg		04/19/24 15:29	04/24/24 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/24/24 01:12*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		04/22/24 13:39	04/23/24 21:29	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		04/22/24 13:39	04/23/24 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*118*		*62 - 134*	*04/22/24 13:39*	*04/23/24 21:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		04/22/24 16:51	04/23/24 23:04	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-9

Date Collected: 04/17/24 12:32
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-19

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		04/19/24 15:29	04/24/24 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*04/19/24 15:29*	*04/24/24 01:57*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 01:57	1
Ethylbenzene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 01:57	1
Toluene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 01:57	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 15:29	04/24/24 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*39 - 146*	*04/19/24 15:29*	*04/24/24 01:57*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		04/22/24 13:39	04/23/24 21:53	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*04/22/24 13:39*	*04/23/24 21:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		60		mg/Kg		04/22/24 16:51	04/23/24 23:16	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-10

Date Collected: 04/17/24 12:38
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-20

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		04/19/24 15:29	04/24/24 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*04/19/24 15:29*	*04/24/24 02:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 02:19	1
Ethylbenzene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 02:19	1
Toluene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 02:19	1
Xylenes, Total	ND		0.096		mg/Kg		04/19/24 15:29	04/24/24 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 15:29*	*04/24/24 02:19*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**10**		10		mg/Kg		04/22/24 13:39	04/23/24 22:18	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*115*		*62 - 134*	*04/22/24 13:39*	*04/23/24 22:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		60		mg/Kg		04/22/24 16:51	04/23/24 23:28	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-11

Date Collected: 04/17/24 12:40
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-21

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		04/19/24 15:29	04/24/24 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 244*	*04/19/24 15:29*	*04/24/24 02:42*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		04/19/24 15:29	04/24/24 02:42	1
Ethylbenzene	ND		0.047		mg/Kg		04/19/24 15:29	04/24/24 02:42	1
Toluene	ND		0.047		mg/Kg		04/19/24 15:29	04/24/24 02:42	1
Xylenes, Total	ND		0.094		mg/Kg		04/19/24 15:29	04/24/24 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 15:29*	*04/24/24 02:42*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		04/22/24 13:39	04/23/24 22:42	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		04/22/24 13:39	04/23/24 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*	*04/22/24 13:39*	*04/23/24 22:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		04/22/24 16:51	04/23/24 23:41	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-12

Date Collected: 04/17/24 12:48
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-22

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/24/24 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*04/19/24 15:29*	*04/24/24 03:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 03:04	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 03:04	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 03:04	1
Xylenes, Total	ND		0.098		mg/Kg		04/19/24 15:29	04/24/24 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 15:29*	*04/24/24 03:04*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		04/22/24 13:39	04/23/24 23:07	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*04/22/24 13:39*	*04/23/24 23:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		60		mg/Kg		04/22/24 16:51	04/23/24 23:53	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-13

Date Collected: 04/17/24 12:54
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-23

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/24/24 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/24/24 03:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 03:27	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 03:27	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 03:27	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 15:29	04/24/24 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*39 - 146*	*04/19/24 15:29*	*04/24/24 03:27*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.5		mg/Kg		04/22/24 13:39	04/23/24 23:55	1
Motor Oil Range Organics [C28-C40]	ND		42		mg/Kg		04/22/24 13:39	04/23/24 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*04/22/24 13:39*	*04/23/24 23:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		04/22/24 16:51	04/24/24 00:30	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-14

Date Collected: 04/17/24 13:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-24

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 15:29	04/24/24 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*04/19/24 15:29*	*04/24/24 03:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 15:29	04/24/24 03:49	1
Ethylbenzene	ND		0.050		mg/Kg		04/19/24 15:29	04/24/24 03:49	1
Toluene	ND		0.050		mg/Kg		04/19/24 15:29	04/24/24 03:49	1
Xylenes, Total	ND		0.10		mg/Kg		04/19/24 15:29	04/24/24 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/24/24 03:49*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		04/22/24 13:39	04/24/24 00:19	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/22/24 13:39	04/24/24 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*75*		*62 - 134*	*04/22/24 13:39*	*04/24/24 00:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		04/22/24 16:51	04/24/24 00:43	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-15

Date Collected: 04/17/24 13:02
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-25

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		04/19/24 15:29	04/24/24 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 244*	*04/19/24 15:29*	*04/24/24 04:12*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		04/19/24 15:29	04/24/24 04:12	1
Ethylbenzene	ND		0.046		mg/Kg		04/19/24 15:29	04/24/24 04:12	1
Toluene	ND		0.046		mg/Kg		04/19/24 15:29	04/24/24 04:12	1
Xylenes, Total	ND		0.093		mg/Kg		04/19/24 15:29	04/24/24 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*04/19/24 15:29*	*04/24/24 04:12*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		04/22/24 13:39	04/24/24 00:44	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		04/22/24 13:39	04/24/24 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*67*		*62 - 134*	*04/22/24 13:39*	*04/24/24 00:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		60		mg/Kg		04/22/24 16:51	04/24/24 00:55	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: P-2B-W1

Date Collected: 04/17/24 13:10
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-26

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/24/24 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*15 - 244*	*04/19/24 15:29*	*04/24/24 04:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 04:34	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 04:34	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 04:34	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 15:29	04/24/24 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*39 - 146*	*04/19/24 15:29*	*04/24/24 04:34*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		04/22/24 13:39	04/24/24 01:08	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		04/22/24 13:39	04/24/24 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*69*		*62 - 134*	*04/22/24 13:39*	*04/24/24 01:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**360**		60		mg/Kg		04/22/24 16:51	04/24/24 01:07	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: P-2B-W2

Date Collected: 04/17/24 13:12
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-27

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		04/19/24 15:29	04/24/24 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/24/24 04:56*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 04:56	1
Ethylbenzene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 04:56	1
Toluene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 04:56	1
Xylenes, Total	ND		0.096		mg/Kg		04/19/24 15:29	04/24/24 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*04/19/24 15:29*	*04/24/24 04:56*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		04/22/24 13:39	04/24/24 01:33	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		04/22/24 13:39	04/24/24 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*69*		*62 - 134*	*04/22/24 13:39*	*04/24/24 01:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		04/23/24 16:44	04/24/24 09:10	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: P-2B-W3

Date Collected: 04/17/24 13:14
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-28

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 15:29	04/24/24 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*04/19/24 15:29*	*04/24/24 05:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 15:29	04/24/24 05:19	1
Ethylbenzene	ND		0.050		mg/Kg		04/19/24 15:29	04/24/24 05:19	1
Toluene	ND		0.050		mg/Kg		04/19/24 15:29	04/24/24 05:19	1
Xylenes, Total	ND		0.099		mg/Kg		04/19/24 15:29	04/24/24 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/24/24 05:19*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		04/22/24 13:39	04/24/24 01:57	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		04/22/24 13:39	04/24/24 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*04/22/24 13:39*	*04/24/24 01:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**360**		60		mg/Kg		04/23/24 16:44	04/24/24 09:48	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: R-2A-W3

Date Collected: 04/17/24 13:16
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-29

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/23/24 13:42	04/24/24 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 244*	*04/23/24 13:42*	*04/24/24 16:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/23/24 13:42	04/24/24 16:16	1
Ethylbenzene	ND		0.049		mg/Kg		04/23/24 13:42	04/24/24 16:16	1
Toluene	ND		0.049		mg/Kg		04/23/24 13:42	04/24/24 16:16	1
Xylenes, Total	ND		0.099		mg/Kg		04/23/24 13:42	04/24/24 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*39 - 146*	*04/23/24 13:42*	*04/24/24 16:16*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		04/23/24 15:26	04/24/24 19:04	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		04/23/24 15:26	04/24/24 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*04/23/24 15:26*	*04/24/24 19:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**350**		60		mg/Kg		04/24/24 14:12	04/24/24 16:51	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-3584/1-A
Matrix: Solid
Analysis Batch: 3729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3584

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 10:55	04/22/24 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*04/19/24 10:55*	*04/22/24 12:26*	*1*

Lab Sample ID: LCS 885-3584/2-A
Matrix: Solid
Analysis Batch: 3729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3584

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.7		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*211*		*15 - 244*

Lab Sample ID: MB 885-3603/1-A
Matrix: Solid
Analysis Batch: 3801

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3603

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 15:29	04/23/24 19:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/23/24 19:55*	*1*

Lab Sample ID: LCS 885-3603/2-A
Matrix: Solid
Analysis Batch: 3801

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3603

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.1		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*230*		*15 - 244*

Lab Sample ID: 885-3108-9 MS
Matrix: Solid
Analysis Batch: 3801

Client Sample ID: PWA-9
Prep Type: Total/NA
Prep Batch: 3603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.4	23.7		mg/Kg		97	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-3108-9 MS
Matrix: Solid
Analysis Batch: 3801

Client Sample ID: PWA-9
Prep Type: Total/NA
Prep Batch: 3603

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	230		15 - 244

Lab Sample ID: 885-3108-9 MSD
Matrix: Solid
Analysis Batch: 3801

Client Sample ID: PWA-9
Prep Type: Total/NA
Prep Batch: 3603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.5	24.8		mg/Kg		101	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	233		15 - 244

Lab Sample ID: MB 885-3757/1-A
Matrix: Solid
Analysis Batch: 3868

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3757

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/23/24 13:42	04/24/24 14:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 244	04/23/24 13:42	04/24/24 14:20	1

Lab Sample ID: LCS 885-3757/2-A
Matrix: Solid
Analysis Batch: 3868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3757

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.9		mg/Kg		96	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	199		15 - 244

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-3584/1-A
Matrix: Solid
Analysis Batch: 3730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3584

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/22/24 12:26	1
Ethylbenzene	ND		0.050		mg/Kg		04/19/24 10:55	04/22/24 12:26	1
Toluene	ND		0.050		mg/Kg		04/19/24 10:55	04/22/24 12:26	1
Xylenes, Total	ND		0.10		mg/Kg		04/19/24 10:55	04/22/24 12:26	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-3584/1-A
Matrix: Solid
Analysis Batch: 3730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3584

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		39 - 146	04/19/24 10:55	04/22/24 12:26	1

Lab Sample ID: LCS 885-3584/3-A
Matrix: Solid
Analysis Batch: 3730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.788		mg/Kg		79	70 - 130
Ethylbenzene	1.00	0.808		mg/Kg		81	70 - 130
Toluene	1.00	0.803		mg/Kg		80	70 - 130
m,p-Xylene	2.00	1.65		mg/Kg		82	70 - 130
o-Xylene	1.00	0.797		mg/Kg		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		39 - 146

Lab Sample ID: MB 885-3603/1-A
Matrix: Solid
Analysis Batch: 3804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3603

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/19/24 15:29	04/23/24 19:55	1
Ethylbenzene	ND		0.050	mg/Kg		04/19/24 15:29	04/23/24 19:55	1
Toluene	ND		0.050	mg/Kg		04/19/24 15:29	04/23/24 19:55	1
Xylenes, Total	ND		0.10	mg/Kg		04/19/24 15:29	04/23/24 19:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146	04/19/24 15:29	04/23/24 19:55	1

Lab Sample ID: LCS 885-3603/3-A
Matrix: Solid
Analysis Batch: 3804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.942		mg/Kg		94	70 - 130
Ethylbenzene	1.00	0.959		mg/Kg		96	70 - 130
Toluene	1.00	0.940		mg/Kg		94	70 - 130
m,p-Xylene	2.00	1.92		mg/Kg		96	70 - 130
o-Xylene	1.00	0.973		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		39 - 146

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-3108-10 MS
Matrix: Solid
Analysis Batch: 3804

Client Sample ID: PWA-10
Prep Type: Total/NA
Prep Batch: 3603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.985	0.943		mg/Kg		96	70 - 130
Ethylbenzene	ND		0.985	0.980		mg/Kg		100	70 - 130
Toluene	ND		0.985	0.955		mg/Kg		97	70 - 130
m,p-Xylene	ND		1.97	1.97		mg/Kg		100	70 - 130
o-Xylene	ND		0.985	0.991		mg/Kg		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*

Lab Sample ID: 885-3108-10 MSD
Matrix: Solid
Analysis Batch: 3804

Client Sample ID: PWA-10
Prep Type: Total/NA
Prep Batch: 3603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.987	0.918		mg/Kg		93	70 - 130	3	20
Ethylbenzene	ND		0.987	0.955		mg/Kg		97	70 - 130	3	20
Toluene	ND		0.987	0.924		mg/Kg		94	70 - 130	3	20
m,p-Xylene	ND		1.97	1.91		mg/Kg		97	70 - 130	3	20
o-Xylene	ND		0.987	0.960		mg/Kg		97	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*39 - 146*

Lab Sample ID: MB 885-3757/1-A
Matrix: Solid
Analysis Batch: 3869

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3757

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/23/24 13:42	04/24/24 14:20	1
Ethylbenzene	ND		0.050		mg/Kg		04/23/24 13:42	04/24/24 14:20	1
Toluene	ND		0.050		mg/Kg		04/23/24 13:42	04/24/24 14:20	1
Xylenes, Total	ND		0.10		mg/Kg		04/23/24 13:42	04/24/24 14:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*39 - 146*	*04/23/24 13:42*	*04/24/24 14:20*	*1*

Lab Sample ID: LCS 885-3757/3-A
Matrix: Solid
Analysis Batch: 3869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3757

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			1.00	0.962		mg/Kg		96	70 - 130
Ethylbenzene			1.00	0.937		mg/Kg		94	70 - 130
Toluene			1.00	0.920		mg/Kg		92	70 - 130
m,p-Xylene			2.00	1.92		mg/Kg		96	70 - 130
o-Xylene			1.00	0.941		mg/Kg		94	70 - 130

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-3757/3-A
Matrix: Solid
Analysis Batch: 3869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3757

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		39 - 146

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-3596/1-A
Matrix: Solid
Analysis Batch: 3704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3596

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		04/19/24 13:29	04/22/24 11:18	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/19/24 13:29	04/22/24 11:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134	04/19/24 13:29	04/22/24 11:18	1

Lab Sample ID: LCS 885-3596/2-A
Matrix: Solid
Analysis Batch: 3704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3596

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	49.7		mg/Kg		99	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	102		62 - 134

Lab Sample ID: MB 885-3678/1-A
Matrix: Solid
Analysis Batch: 3793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3678

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		04/22/24 13:39	04/23/24 11:18	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 11:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	125		62 - 134	04/22/24 13:39	04/23/24 11:18	1

Lab Sample ID: LCS 885-3678/2-A
Matrix: Solid
Analysis Batch: 3793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3678

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	59.3		mg/Kg		119	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	119		62 - 134

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-3108-28 MS
Matrix: Solid
Analysis Batch: 3794

Client Sample ID: P-2B-W3
Prep Type: Total/NA
Prep Batch: 3678

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		47.4	60.4		mg/Kg		127	44 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*

Lab Sample ID: 885-3108-28 MSD
Matrix: Solid
Analysis Batch: 3794

Client Sample ID: P-2B-W3
Prep Type: Total/NA
Prep Batch: 3678

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		48.0	49.4		mg/Kg		103	44 - 136	20	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*69*		*62 - 134*

Lab Sample ID: MB 885-3768/1-A
Matrix: Solid
Analysis Batch: 3832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3768

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		04/23/24 15:26	04/24/24 18:41	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/23/24 15:26	04/24/24 18:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*04/23/24 15:26*	*04/24/24 18:41*	*1*

Lab Sample ID: LCS 885-3768/2-A
Matrix: Solid
Analysis Batch: 3832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3768

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	48.8		mg/Kg		98	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-3708/1-A
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3708

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		04/22/24 16:51	04/23/24 18:44	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-3708/2-A
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3708

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.7		mg/Kg		98	90 - 110		

Lab Sample ID: 885-3108-7 MS
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: PWA-7
Prep Type: Total/NA
Prep Batch: 3708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	270		30.0	295	4	mg/Kg		82	50 - 150		

Lab Sample ID: 885-3108-7 MSD
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: PWA-7
Prep Type: Total/NA
Prep Batch: 3708

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	270		30.0	305	4	mg/Kg		115	50 - 150	3	20

Lab Sample ID: 885-3108-8 MS
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: PWA-8
Prep Type: Total/NA
Prep Batch: 3708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250		30.1	291	4	mg/Kg		142	50 - 150		

Lab Sample ID: 885-3108-8 MSD
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: PWA-8
Prep Type: Total/NA
Prep Batch: 3708

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250		30.1	305	4	mg/Kg		189	50 - 150	5	20

Lab Sample ID: MB 885-3774/1-A
Matrix: Solid
Analysis Batch: 3852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3774

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		04/23/24 16:44	04/24/24 08:44	1

Lab Sample ID: LCS 885-3774/2-A
Matrix: Solid
Analysis Batch: 3852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3774

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	13.9		mg/Kg		93	90 - 110		

Lab Sample ID: 885-3108-27 MS
Matrix: Solid
Analysis Batch: 3852

Client Sample ID: P-2B-W2
Prep Type: Total/NA
Prep Batch: 3774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	300		29.8	349	4	mg/Kg		158	50 - 150		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-3108-27 MSD
Matrix: Solid
Analysis Batch: 3852

Client Sample ID: P-2B-W2
Prep Type: Total/NA
Prep Batch: 3774

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	300		30.1	329	4	mg/Kg		89	50 - 150	6	20

Lab Sample ID: MB 885-3787/4
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/Kg			04/23/24 08:45	1

Lab Sample ID: MRL 885-3787/3
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.552		mg/L		110	50 - 150		

Lab Sample ID: MB 885-3838/1-A
Matrix: Solid
Analysis Batch: 3852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3838

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		04/24/24 14:12	04/24/24 16:14	1

Lab Sample ID: LCS 885-3838/2-A
Matrix: Solid
Analysis Batch: 3852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3838

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	13.9		mg/Kg		93	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

GC VOA

Prep Batch: 3584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	5030C	
885-3108-2	PWA-2	Total/NA	Solid	5030C	
885-3108-3	PWA-3	Total/NA	Solid	5030C	
885-3108-4	PWA-4	Total/NA	Solid	5030C	
885-3108-5	PWA-5	Total/NA	Solid	5030C	
885-3108-6	PWA-6	Total/NA	Solid	5030C	
885-3108-7	PWA-7	Total/NA	Solid	5030C	
885-3108-8	PWA-8	Total/NA	Solid	5030C	
MB 885-3584/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3584/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3584/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 3603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-9	PWA-9	Total/NA	Solid	5030C	
885-3108-10	PWA-10	Total/NA	Solid	5030C	
885-3108-11	PBA-1	Total/NA	Solid	5030C	
885-3108-12	PBA-2	Total/NA	Solid	5030C	
885-3108-13	PBA-3	Total/NA	Solid	5030C	
885-3108-14	PBA-4	Total/NA	Solid	5030C	
885-3108-15	PBA-5	Total/NA	Solid	5030C	
885-3108-16	PBA-6	Total/NA	Solid	5030C	
885-3108-17	PBA-7	Total/NA	Solid	5030C	
885-3108-18	PBA-8	Total/NA	Solid	5030C	
885-3108-19	PBA-9	Total/NA	Solid	5030C	
885-3108-20	PBA-10	Total/NA	Solid	5030C	
885-3108-21	PBA-11	Total/NA	Solid	5030C	
885-3108-22	PBA-12	Total/NA	Solid	5030C	
885-3108-23	PBA-13	Total/NA	Solid	5030C	
885-3108-24	PBA-14	Total/NA	Solid	5030C	
885-3108-25	PBA-15	Total/NA	Solid	5030C	
885-3108-26	P-2B-W1	Total/NA	Solid	5030C	
885-3108-27	P-2B-W2	Total/NA	Solid	5030C	
885-3108-28	P-2B-W3	Total/NA	Solid	5030C	
MB 885-3603/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3603/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3603/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-3108-9 MS	PWA-9	Total/NA	Solid	5030C	
885-3108-9 MSD	PWA-9	Total/NA	Solid	5030C	
885-3108-10 MS	PWA-10	Total/NA	Solid	5030C	
885-3108-10 MSD	PWA-10	Total/NA	Solid	5030C	

Analysis Batch: 3729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	8015D	3584
885-3108-2	PWA-2	Total/NA	Solid	8015D	3584
885-3108-3	PWA-3	Total/NA	Solid	8015D	3584
885-3108-4	PWA-4	Total/NA	Solid	8015D	3584
885-3108-5	PWA-5	Total/NA	Solid	8015D	3584
885-3108-6	PWA-6	Total/NA	Solid	8015D	3584
885-3108-7	PWA-7	Total/NA	Solid	8015D	3584

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

GC VOA (Continued)

Analysis Batch: 3729 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-8	PWA-8	Total/NA	Solid	8015D	3584
MB 885-3584/1-A	Method Blank	Total/NA	Solid	8015D	3584
LCS 885-3584/2-A	Lab Control Sample	Total/NA	Solid	8015D	3584

Analysis Batch: 3730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	8021B	3584
885-3108-2	PWA-2	Total/NA	Solid	8021B	3584
885-3108-3	PWA-3	Total/NA	Solid	8021B	3584
885-3108-4	PWA-4	Total/NA	Solid	8021B	3584
MB 885-3584/1-A	Method Blank	Total/NA	Solid	8021B	3584
LCS 885-3584/3-A	Lab Control Sample	Total/NA	Solid	8021B	3584

Prep Batch: 3757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-29	R-2A-W3	Total/NA	Solid	5030C	
MB 885-3757/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3757/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3757/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 3801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-9	PWA-9	Total/NA	Solid	8015D	3603
885-3108-10	PWA-10	Total/NA	Solid	8015D	3603
885-3108-11	PBA-1	Total/NA	Solid	8015D	3603
885-3108-12	PBA-2	Total/NA	Solid	8015D	3603
885-3108-13	PBA-3	Total/NA	Solid	8015D	3603
885-3108-14	PBA-4	Total/NA	Solid	8015D	3603
885-3108-15	PBA-5	Total/NA	Solid	8015D	3603
885-3108-16	PBA-6	Total/NA	Solid	8015D	3603
885-3108-17	PBA-7	Total/NA	Solid	8015D	3603
885-3108-18	PBA-8	Total/NA	Solid	8015D	3603
885-3108-19	PBA-9	Total/NA	Solid	8015D	3603
885-3108-20	PBA-10	Total/NA	Solid	8015D	3603
885-3108-21	PBA-11	Total/NA	Solid	8015D	3603
885-3108-22	PBA-12	Total/NA	Solid	8015D	3603
885-3108-23	PBA-13	Total/NA	Solid	8015D	3603
885-3108-24	PBA-14	Total/NA	Solid	8015D	3603
885-3108-25	PBA-15	Total/NA	Solid	8015D	3603
885-3108-26	P-2B-W1	Total/NA	Solid	8015D	3603
885-3108-27	P-2B-W2	Total/NA	Solid	8015D	3603
885-3108-28	P-2B-W3	Total/NA	Solid	8015D	3603
MB 885-3603/1-A	Method Blank	Total/NA	Solid	8015D	3603
LCS 885-3603/2-A	Lab Control Sample	Total/NA	Solid	8015D	3603
885-3108-9 MS	PWA-9	Total/NA	Solid	8015D	3603
885-3108-9 MSD	PWA-9	Total/NA	Solid	8015D	3603

Analysis Batch: 3803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-5	PWA-5	Total/NA	Solid	8021B	3584
885-3108-6	PWA-6	Total/NA	Solid	8021B	3584

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

GC VOA (Continued)

Analysis Batch: 3803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-7	PWA-7	Total/NA	Solid	8021B	3584
885-3108-8	PWA-8	Total/NA	Solid	8021B	3584

Analysis Batch: 3804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-9	PWA-9	Total/NA	Solid	8021B	3603
885-3108-10	PWA-10	Total/NA	Solid	8021B	3603
885-3108-11	PBA-1	Total/NA	Solid	8021B	3603
885-3108-12	PBA-2	Total/NA	Solid	8021B	3603
885-3108-13	PBA-3	Total/NA	Solid	8021B	3603
885-3108-14	PBA-4	Total/NA	Solid	8021B	3603
885-3108-15	PBA-5	Total/NA	Solid	8021B	3603
885-3108-16	PBA-6	Total/NA	Solid	8021B	3603
885-3108-17	PBA-7	Total/NA	Solid	8021B	3603
885-3108-18	PBA-8	Total/NA	Solid	8021B	3603
885-3108-19	PBA-9	Total/NA	Solid	8021B	3603
885-3108-20	PBA-10	Total/NA	Solid	8021B	3603
885-3108-21	PBA-11	Total/NA	Solid	8021B	3603
885-3108-22	PBA-12	Total/NA	Solid	8021B	3603
885-3108-23	PBA-13	Total/NA	Solid	8021B	3603
885-3108-24	PBA-14	Total/NA	Solid	8021B	3603
885-3108-25	PBA-15	Total/NA	Solid	8021B	3603
885-3108-26	P-2B-W1	Total/NA	Solid	8021B	3603
885-3108-27	P-2B-W2	Total/NA	Solid	8021B	3603
885-3108-28	P-2B-W3	Total/NA	Solid	8021B	3603
MB 885-3603/1-A	Method Blank	Total/NA	Solid	8021B	3603
LCS 885-3603/3-A	Lab Control Sample	Total/NA	Solid	8021B	3603
885-3108-10 MS	PWA-10	Total/NA	Solid	8021B	3603
885-3108-10 MSD	PWA-10	Total/NA	Solid	8021B	3603

Analysis Batch: 3868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-29	R-2A-W3	Total/NA	Solid	8015D	3757
MB 885-3757/1-A	Method Blank	Total/NA	Solid	8015D	3757
LCS 885-3757/2-A	Lab Control Sample	Total/NA	Solid	8015D	3757

Analysis Batch: 3869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-29	R-2A-W3	Total/NA	Solid	8021B	3757
MB 885-3757/1-A	Method Blank	Total/NA	Solid	8021B	3757
LCS 885-3757/3-A	Lab Control Sample	Total/NA	Solid	8021B	3757

GC Semi VOA

Prep Batch: 3596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	SHAKE	
885-3108-2	PWA-2	Total/NA	Solid	SHAKE	
885-3108-3	PWA-3	Total/NA	Solid	SHAKE	
885-3108-4	PWA-4	Total/NA	Solid	SHAKE	
885-3108-5	PWA-5	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

GC Semi VOA (Continued)

Prep Batch: 3596 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-6	PWA-6	Total/NA	Solid	SHAKE	
885-3108-7	PWA-7	Total/NA	Solid	SHAKE	
885-3108-8	PWA-8	Total/NA	Solid	SHAKE	
MB 885-3596/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3596/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 3678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-9	PWA-9	Total/NA	Solid	SHAKE	
885-3108-10	PWA-10	Total/NA	Solid	SHAKE	
885-3108-11	PBA-1	Total/NA	Solid	SHAKE	
885-3108-12	PBA-2	Total/NA	Solid	SHAKE	
885-3108-13	PBA-3	Total/NA	Solid	SHAKE	
885-3108-14	PBA-4	Total/NA	Solid	SHAKE	
885-3108-15	PBA-5	Total/NA	Solid	SHAKE	
885-3108-16	PBA-6	Total/NA	Solid	SHAKE	
885-3108-17	PBA-7	Total/NA	Solid	SHAKE	
885-3108-18	PBA-8	Total/NA	Solid	SHAKE	
885-3108-19	PBA-9	Total/NA	Solid	SHAKE	
885-3108-20	PBA-10	Total/NA	Solid	SHAKE	
885-3108-21	PBA-11	Total/NA	Solid	SHAKE	
885-3108-22	PBA-12	Total/NA	Solid	SHAKE	
885-3108-23	PBA-13	Total/NA	Solid	SHAKE	
885-3108-24	PBA-14	Total/NA	Solid	SHAKE	
885-3108-25	PBA-15	Total/NA	Solid	SHAKE	
885-3108-26	P-2B-W1	Total/NA	Solid	SHAKE	
885-3108-27	P-2B-W2	Total/NA	Solid	SHAKE	
885-3108-28	P-2B-W3	Total/NA	Solid	SHAKE	
MB 885-3678/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3678/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-3108-28 MS	P-2B-W3	Total/NA	Solid	SHAKE	
885-3108-28 MSD	P-2B-W3	Total/NA	Solid	SHAKE	

Analysis Batch: 3704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	8015D	3596
885-3108-2	PWA-2	Total/NA	Solid	8015D	3596
885-3108-3	PWA-3	Total/NA	Solid	8015D	3596
885-3108-4	PWA-4	Total/NA	Solid	8015D	3596
885-3108-5	PWA-5	Total/NA	Solid	8015D	3596
885-3108-6	PWA-6	Total/NA	Solid	8015D	3596
885-3108-7	PWA-7	Total/NA	Solid	8015D	3596
885-3108-8	PWA-8	Total/NA	Solid	8015D	3596
MB 885-3596/1-A	Method Blank	Total/NA	Solid	8015D	3596
LCS 885-3596/2-A	Lab Control Sample	Total/NA	Solid	8015D	3596

Prep Batch: 3768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-29	R-2A-W3	Total/NA	Solid	SHAKE	
MB 885-3768/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3768/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

GC Semi VOA

Analysis Batch: 3793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-9	PWA-9	Total/NA	Solid	8015D	3678
885-3108-10	PWA-10	Total/NA	Solid	8015D	3678
885-3108-11	PBA-1	Total/NA	Solid	8015D	3678
885-3108-12	PBA-2	Total/NA	Solid	8015D	3678
885-3108-13	PBA-3	Total/NA	Solid	8015D	3678
885-3108-17	PBA-7	Total/NA	Solid	8015D	3678
MB 885-3678/1-A	Method Blank	Total/NA	Solid	8015D	3678
LCS 885-3678/2-A	Lab Control Sample	Total/NA	Solid	8015D	3678

Analysis Batch: 3794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-14	PBA-4	Total/NA	Solid	8015D	3678
885-3108-15	PBA-5	Total/NA	Solid	8015D	3678
885-3108-16	PBA-6	Total/NA	Solid	8015D	3678
885-3108-18	PBA-8	Total/NA	Solid	8015D	3678
885-3108-19	PBA-9	Total/NA	Solid	8015D	3678
885-3108-20	PBA-10	Total/NA	Solid	8015D	3678
885-3108-21	PBA-11	Total/NA	Solid	8015D	3678
885-3108-22	PBA-12	Total/NA	Solid	8015D	3678
885-3108-23	PBA-13	Total/NA	Solid	8015D	3678
885-3108-24	PBA-14	Total/NA	Solid	8015D	3678
885-3108-25	PBA-15	Total/NA	Solid	8015D	3678
885-3108-26	P-2B-W1	Total/NA	Solid	8015D	3678
885-3108-27	P-2B-W2	Total/NA	Solid	8015D	3678
885-3108-28	P-2B-W3	Total/NA	Solid	8015D	3678
885-3108-28 MS	P-2B-W3	Total/NA	Solid	8015D	3678
885-3108-28 MSD	P-2B-W3	Total/NA	Solid	8015D	3678

Analysis Batch: 3832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-29	R-2A-W3	Total/NA	Solid	8015D	3768
MB 885-3768/1-A	Method Blank	Total/NA	Solid	8015D	3768
LCS 885-3768/2-A	Lab Control Sample	Total/NA	Solid	8015D	3768

HPLC/IC

Prep Batch: 3682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	300_Prep	
885-3108-2	PWA-2	Total/NA	Solid	300_Prep	
885-3108-3	PWA-3	Total/NA	Solid	300_Prep	
885-3108-4	PWA-4	Total/NA	Solid	300_Prep	
885-3108-5	PWA-5	Total/NA	Solid	300_Prep	
885-3108-6	PWA-6	Total/NA	Solid	300_Prep	

Prep Batch: 3708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-7	PWA-7	Total/NA	Solid	300_Prep	
885-3108-8	PWA-8	Total/NA	Solid	300_Prep	
885-3108-9	PWA-9	Total/NA	Solid	300_Prep	
885-3108-10	PWA-10	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

HPLC/IC (Continued)

Prep Batch: 3708 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-11	PBA-1	Total/NA	Solid	300_Prep	
885-3108-12	PBA-2	Total/NA	Solid	300_Prep	
885-3108-13	PBA-3	Total/NA	Solid	300_Prep	
885-3108-14	PBA-4	Total/NA	Solid	300_Prep	
885-3108-15	PBA-5	Total/NA	Solid	300_Prep	
885-3108-16	PBA-6	Total/NA	Solid	300_Prep	
885-3108-17	PBA-7	Total/NA	Solid	300_Prep	
885-3108-18	PBA-8	Total/NA	Solid	300_Prep	
885-3108-19	PBA-9	Total/NA	Solid	300_Prep	
885-3108-20	PBA-10	Total/NA	Solid	300_Prep	
885-3108-21	PBA-11	Total/NA	Solid	300_Prep	
885-3108-22	PBA-12	Total/NA	Solid	300_Prep	
885-3108-23	PBA-13	Total/NA	Solid	300_Prep	
885-3108-24	PBA-14	Total/NA	Solid	300_Prep	
885-3108-25	PBA-15	Total/NA	Solid	300_Prep	
885-3108-26	P-2B-W1	Total/NA	Solid	300_Prep	
MB 885-3708/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-3708/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-3108-7 MS	PWA-7	Total/NA	Solid	300_Prep	
885-3108-7 MSD	PWA-7	Total/NA	Solid	300_Prep	
885-3108-8 MS	PWA-8	Total/NA	Solid	300_Prep	
885-3108-8 MSD	PWA-8	Total/NA	Solid	300_Prep	

Prep Batch: 3774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-27	P-2B-W2	Total/NA	Solid	300_Prep	
885-3108-28	P-2B-W3	Total/NA	Solid	300_Prep	
MB 885-3774/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-3774/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-3108-27 MS	P-2B-W2	Total/NA	Solid	300_Prep	
885-3108-27 MSD	P-2B-W2	Total/NA	Solid	300_Prep	

Analysis Batch: 3787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	300.0	3682
885-3108-2	PWA-2	Total/NA	Solid	300.0	3682
885-3108-3	PWA-3	Total/NA	Solid	300.0	3682
885-3108-4	PWA-4	Total/NA	Solid	300.0	3682
885-3108-5	PWA-5	Total/NA	Solid	300.0	3682
885-3108-6	PWA-6	Total/NA	Solid	300.0	3682
885-3108-7	PWA-7	Total/NA	Solid	300.0	3708
885-3108-8	PWA-8	Total/NA	Solid	300.0	3708
885-3108-9	PWA-9	Total/NA	Solid	300.0	3708
885-3108-10	PWA-10	Total/NA	Solid	300.0	3708
885-3108-11	PBA-1	Total/NA	Solid	300.0	3708
885-3108-12	PBA-2	Total/NA	Solid	300.0	3708
885-3108-13	PBA-3	Total/NA	Solid	300.0	3708
885-3108-14	PBA-4	Total/NA	Solid	300.0	3708
885-3108-15	PBA-5	Total/NA	Solid	300.0	3708
885-3108-16	PBA-6	Total/NA	Solid	300.0	3708
885-3108-17	PBA-7	Total/NA	Solid	300.0	3708

QC Association Summary

Client: Ranger Environmental Services, Inc Job ID: 885-3108-1
Project/Site: Roy SWD #3

HPLC/IC (Continued)

Analysis Batch: 3787 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-18	PBA-8	Total/NA	Solid	300.0	3708
885-3108-19	PBA-9	Total/NA	Solid	300.0	3708
885-3108-20	PBA-10	Total/NA	Solid	300.0	3708
885-3108-21	PBA-11	Total/NA	Solid	300.0	3708
885-3108-22	PBA-12	Total/NA	Solid	300.0	3708
885-3108-23	PBA-13	Total/NA	Solid	300.0	3708
885-3108-24	PBA-14	Total/NA	Solid	300.0	3708
885-3108-25	PBA-15	Total/NA	Solid	300.0	3708
885-3108-26	P-2B-W1	Total/NA	Solid	300.0	3708
MB 885-3708/1-A	Method Blank	Total/NA	Solid	300.0	3708
MB 885-3787/4	Method Blank	Total/NA	Solid	300.0	
LCS 885-3708/2-A	Lab Control Sample	Total/NA	Solid	300.0	3708
MRL 885-3787/3	Lab Control Sample	Total/NA	Solid	300.0	
885-3108-7 MS	PWA-7	Total/NA	Solid	300.0	3708
885-3108-7 MSD	PWA-7	Total/NA	Solid	300.0	3708
885-3108-8 MS	PWA-8	Total/NA	Solid	300.0	3708
885-3108-8 MSD	PWA-8	Total/NA	Solid	300.0	3708

Prep Batch: 3838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-29	R-2A-W3	Total/NA	Solid	300_Prep	
MB 885-3838/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-3838/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 3852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-27	P-2B-W2	Total/NA	Solid	300.0	3774
885-3108-28	P-2B-W3	Total/NA	Solid	300.0	3774
885-3108-29	R-2A-W3	Total/NA	Solid	300.0	3838
MB 885-3774/1-A	Method Blank	Total/NA	Solid	300.0	3774
MB 885-3838/1-A	Method Blank	Total/NA	Solid	300.0	3838
LCS 885-3774/2-A	Lab Control Sample	Total/NA	Solid	300.0	3774
LCS 885-3838/2-A	Lab Control Sample	Total/NA	Solid	300.0	3838
885-3108-27 MS	P-2B-W2	Total/NA	Solid	300.0	3774
885-3108-27 MSD	P-2B-W2	Total/NA	Solid	300.0	3774

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-1
Date Collected: 04/17/24 09:40
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 15:11
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3730	JP	EET ALB	04/22/24 15:11
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 13:29
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 14:02
Total/NA	Prep	300_Prep			3682	SS	EET ALB	04/22/24 14:40
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 17:06

Client Sample ID: PWA-2
Date Collected: 04/17/24 09:44
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 15:35
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3730	JP	EET ALB	04/22/24 15:35
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 13:29
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 14:14
Total/NA	Prep	300_Prep			3682	SS	EET ALB	04/22/24 14:40
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 17:18

Client Sample ID: PWA-3
Date Collected: 04/17/24 09:46
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 15:59
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3730	JP	EET ALB	04/22/24 15:59
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 13:29
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 16:54
Total/NA	Prep	300_Prep			3682	SS	EET ALB	04/22/24 14:40
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 17:30

Client Sample ID: PWA-4
Date Collected: 04/17/24 09:50
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 16:23

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-4
Date Collected: 04/17/24 09:50
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3730	JP	EET ALB	04/22/24 16:23
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 13:29
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 17:07
Total/NA	Prep	300_Prep			3682	SS	EET ALB	04/22/24 14:40
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 17:43

Client Sample ID: PWA-5
Date Collected: 04/17/24 09:52
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 17:13
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3803	RA	EET ALB	04/23/24 16:10
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 14:28
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 17:19
Total/NA	Prep	300_Prep			3682	SS	EET ALB	04/22/24 14:40
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 18:20

Client Sample ID: PWA-6
Date Collected: 04/17/24 09:56
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 17:37
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3803	RA	EET ALB	04/23/24 16:32
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 14:28
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 17:32
Total/NA	Prep	300_Prep			3682	SS	EET ALB	04/22/24 14:40
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 18:32

Client Sample ID: PWA-7
Date Collected: 04/17/24 10:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 18:00
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3803	RA	EET ALB	04/23/24 16:54

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-7
Date Collected: 04/17/24 10:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 14:28
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 17:46
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 19:34

Client Sample ID: PWA-8
Date Collected: 04/17/24 10:02
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 18:24
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3803	RA	EET ALB	04/23/24 17:16
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 14:28
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 17:59
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 20:11

Client Sample ID: PWA-9
Date Collected: 04/17/24 10:06
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/23/24 20:17
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/23/24 20:17
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3793	JU	EET ALB	04/23/24 11:43
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 20:48

Client Sample ID: PWA-10
Date Collected: 04/17/24 10:10
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/23/24 21:25
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/23/24 21:25
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3793	JU	EET ALB	04/23/24 11:56

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-10
Date Collected: 04/17/24 10:10
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 21:00

Client Sample ID: PBA-1
Date Collected: 04/17/24 12:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/23/24 22:33
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/23/24 22:33
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3793	JU	EET ALB	04/23/24 12:09
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 21:13

Client Sample ID: PBA-2
Date Collected: 04/17/24 12:02
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/23/24 22:56
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/23/24 22:56
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3793	JU	EET ALB	04/23/24 12:21
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 21:25

Client Sample ID: PBA-3
Date Collected: 04/17/24 12:04
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/23/24 23:18
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/23/24 23:18
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3793	JU	EET ALB	04/23/24 12:34
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 22:02

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-4
Date Collected: 04/17/24 12:08
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/23/24 23:41
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/23/24 23:41
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 20:16
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 22:14

Client Sample ID: PBA-5
Date Collected: 04/17/24 12:14
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 00:04
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 00:04
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 20:40
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 22:27

Client Sample ID: PBA-6
Date Collected: 04/17/24 12:16
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 00:26
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 00:26
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 21:05
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 22:39

Client Sample ID: PBA-7
Date Collected: 04/17/24 12:24
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 00:49

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-7
Date Collected: 04/17/24 12:24
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 00:49
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3793	JU	EET ALB	04/23/24 13:25
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 22:51

Client Sample ID: PBA-8
Date Collected: 04/17/24 12:30
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 01:12
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 01:12
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 21:29
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 23:04

Client Sample ID: PBA-9
Date Collected: 04/17/24 12:32
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 01:57
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 01:57
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 21:53
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 23:16

Client Sample ID: PBA-10
Date Collected: 04/17/24 12:38
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 02:19
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 02:19

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-10
Date Collected: 04/17/24 12:38
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 22:18
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 23:28

Client Sample ID: PBA-11
Date Collected: 04/17/24 12:40
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 02:42
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 02:42
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 22:42
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 23:41

Client Sample ID: PBA-12
Date Collected: 04/17/24 12:48
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 03:04
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 03:04
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 23:07
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 23:53

Client Sample ID: PBA-13
Date Collected: 04/17/24 12:54
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 03:27
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 03:27
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 23:55

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-13
Date Collected: 04/17/24 12:54
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/24/24 00:30

Client Sample ID: PBA-14
Date Collected: 04/17/24 13:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 03:49
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 03:49
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/24/24 00:19
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/24/24 00:43

Client Sample ID: PBA-15
Date Collected: 04/17/24 13:02
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 04:12
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 04:12
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/24/24 00:44
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/24/24 00:55

Client Sample ID: P-2B-W1
Date Collected: 04/17/24 13:10
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 04:34
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 04:34
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/24/24 01:08
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/24/24 01:07

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: P-2B-W2

Date Collected: 04/17/24 13:12
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 04:56
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 04:56
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/24/24 01:33
Total/NA	Prep	300_Prep			3774	SS	EET ALB	04/23/24 16:44
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 09:10

Client Sample ID: P-2B-W3

Date Collected: 04/17/24 13:14
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 05:19
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 05:19
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/24/24 01:57
Total/NA	Prep	300_Prep			3774	SS	EET ALB	04/23/24 16:44
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 09:48

Client Sample ID: R-2A-W3

Date Collected: 04/17/24 13:16
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3757	JP	EET ALB	04/23/24 13:42
Total/NA	Analysis	8015D		1	3868	JP	EET ALB	04/24/24 16:16
Total/NA	Prep	5030C			3757	JP	EET ALB	04/23/24 13:42
Total/NA	Analysis	8021B		1	3869	JP	EET ALB	04/24/24 16:16
Total/NA	Prep	SHAKE			3768	JU	EET ALB	04/23/24 15:26
Total/NA	Analysis	8015D		1	3832	JU	EET ALB	04/24/24 19:04
Total/NA	Prep	300_Prep			3838	RC	EET ALB	04/24/24 14:12
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 16:51

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc Job ID: 885-3108-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 Day TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No 4009i

# of Coolers: 1

Cooler Temp(Including CF): 0.8 - 0.1 = 0.7 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 8

Tel. 505-345-3975 Fax 505-345-41

885-3108 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
4/17/24	0940	soil	PWA-1	1x4oz Jar	ICE	1	X	X	X
	0944		PWA-2			2			
	0946		PWA-3			3			
	0950		PWA-4			4			
	0952		PWA-5			5			
	0956		PWA-6			6			
	1000		PWA-7			7			
	1002		PWA-8			8			
	1006		PWA-9			9			
	1010		PWA-10			10			
	1200		PBA-1			11			
	1202		PBA-2			12			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/18/24	1050				4/18/24	1050
4/18/24	1900			Via: courier	4/19/24	7:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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email or Fax#: Will@RangerEnv.com

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Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Boy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No 4 Jogs

# of Coolers: 1

Cooler Temp(Including CF): 0.8 - 0.1 = 0.7 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
4/17/24	1204	Soil	PBA-3	1x4oz Jar	ICE	13	X	X	X
	1208		PBA-4			14			
	1214		PBA-5			15			
	1216		PBA-6			16			
	1224		PBA-7			17			
	1230		PBA-8			18			
	1232		PBA-9			19			
	1238		PBA-10			20			
	1240		PBA-11			21			
	1248		PBA-12			22			
	1254		PBA-13			23			
	1300		PBA-14			24			

Remarks: Bill to EOG Artesia

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
4/18/24	1050				4/18/24	1050
4/18/24	1900			Courier	4/19/24	7:30

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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QA/QC Package:

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Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No 4.0g

# of Coolers: 1

Cooler Temp(Including CF): 0.8 - 0.1 = 0.7 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
4/17/24	1302	Soil	PBA-1S	1x4oz Jar	ICE	25	X	X	X
	1310		P-2B-W1			26			
	1312		P-2B-W2			27			
	1314		P-2B-W3			28			
	1316		P-2A-W3			29			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/18/24	1050				4/18/24	1050
Date:	Time:	Relinquished by:	Received by:	Via: courier	Date	Time
4/18/24	1900				4/19/24	7:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-3108-1

Login Number: 3108 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 5/28/2024 3:38:44 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-4284-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

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Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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5/28/2024 3:38:44 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Released to Imaging: 9/3/2025 1:20:26 PM

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-4284-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-4284-1
Project/Site: Roy SWD #3

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-4284-1

Job ID: 885-4284-1 Eurofins Albuquerque

Job Narrative
885-4284-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/10/2024 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-4985 recovered above the upper control limit for Diesel Range Organics [C10-C28]. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (LCS 885-4955/2-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_OF_28D_PREC: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-4979 and analytical batch 885-5015 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-11

Date Collected: 05/08/24 09:10
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-1

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/13/24 13:12	05/18/24 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/13/24 13:12*	*05/18/24 05:22*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 13:12	05/18/24 05:22	1
Ethylbenzene	ND		0.049		mg/Kg		05/13/24 13:12	05/18/24 05:22	1
Toluene	ND		0.049		mg/Kg		05/13/24 13:12	05/18/24 05:22	1
Xylenes, Total	ND		0.099		mg/Kg		05/13/24 13:12	05/18/24 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*05/13/24 13:12*	*05/18/24 05:22*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		05/15/24 10:57	05/16/24 13:56	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/15/24 10:57	05/16/24 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*05/15/24 10:57*	*05/16/24 13:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		60		mg/Kg		05/14/24 07:30	05/14/24 12:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-12

Date Collected: 05/08/24 09:12
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-2

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		05/13/24 13:12	05/18/24 06:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/13/24 13:12*	*05/18/24 06:32*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		05/13/24 13:12	05/18/24 06:32	1
Ethylbenzene	ND		0.046		mg/Kg		05/13/24 13:12	05/18/24 06:32	1
Toluene	ND		0.046		mg/Kg		05/13/24 13:12	05/18/24 06:32	1
Xylenes, Total	ND		0.092		mg/Kg		05/13/24 13:12	05/18/24 06:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*05/13/24 13:12*	*05/18/24 06:32*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		05/15/24 10:57	05/16/24 14:07	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/15/24 10:57	05/16/24 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*05/15/24 10:57*	*05/16/24 14:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		60		mg/Kg		05/14/24 07:30	05/14/24 12:28	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-13

Date Collected: 05/08/24 09:20
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-3

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/13/24 13:12	05/18/24 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/13/24 13:12*	*05/18/24 06:55*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/13/24 13:12	05/18/24 06:55	1
Ethylbenzene	ND		0.047		mg/Kg		05/13/24 13:12	05/18/24 06:55	1
Toluene	ND		0.047		mg/Kg		05/13/24 13:12	05/18/24 06:55	1
Xylenes, Total	ND		0.095		mg/Kg		05/13/24 13:12	05/18/24 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*05/13/24 13:12*	*05/18/24 06:55*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		05/15/24 10:57	05/16/24 14:18	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/15/24 10:57	05/16/24 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*05/15/24 10:57*	*05/16/24 14:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		05/14/24 07:30	05/14/24 12:43	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-14

Date Collected: 05/08/24 09:24
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-4

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/13/24 13:12	05/18/24 07:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/13/24 13:12*	*05/18/24 07:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 13:12	05/18/24 07:19	1
Ethylbenzene	ND		0.049		mg/Kg		05/13/24 13:12	05/18/24 07:19	1
Toluene	ND		0.049		mg/Kg		05/13/24 13:12	05/18/24 07:19	1
Xylenes, Total	ND		0.098		mg/Kg		05/13/24 13:12	05/18/24 07:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*05/13/24 13:12*	*05/18/24 07:19*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8		mg/Kg		05/15/24 10:57	05/16/24 14:29	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		05/15/24 10:57	05/16/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*05/15/24 10:57*	*05/16/24 14:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		61		mg/Kg		05/14/24 07:30	05/14/24 12:58	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-15

Date Collected: 05/08/24 09:28
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-5
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/13/24 13:12	05/18/24 07:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/13/24 13:12*	*05/18/24 07:43*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/13/24 13:12	05/18/24 07:43	1
Ethylbenzene	ND		0.047		mg/Kg		05/13/24 13:12	05/18/24 07:43	1
Toluene	ND		0.047		mg/Kg		05/13/24 13:12	05/18/24 07:43	1
Xylenes, Total	ND		0.095		mg/Kg		05/13/24 13:12	05/18/24 07:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*05/13/24 13:12*	*05/18/24 07:43*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		05/15/24 10:57	05/16/24 14:39	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/15/24 10:57	05/16/24 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*05/15/24 10:57*	*05/16/24 14:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		05/14/24 07:30	05/14/24 13:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-16

Date Collected: 05/08/24 09:38
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-6
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/13/24 13:12	05/18/24 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/13/24 13:12*	*05/18/24 08:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/13/24 13:12	05/18/24 08:06	1
Ethylbenzene	ND		0.049		mg/Kg		05/13/24 13:12	05/18/24 08:06	1
Toluene	ND		0.049		mg/Kg		05/13/24 13:12	05/18/24 08:06	1
Xylenes, Total	ND		0.098		mg/Kg		05/13/24 13:12	05/18/24 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/13/24 13:12*	*05/18/24 08:06*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6		mg/Kg		05/15/24 10:57	05/16/24 14:50	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		05/15/24 10:57	05/16/24 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*05/15/24 10:57*	*05/16/24 14:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		05/14/24 07:30	05/14/24 13:28	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-17

Date Collected: 05/08/24 09:40
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-7
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/13/24 13:12	05/18/24 08:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/13/24 13:12*	*05/18/24 08:30*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/13/24 13:12	05/18/24 08:30	1
Ethylbenzene	ND		0.048		mg/Kg		05/13/24 13:12	05/18/24 08:30	1
Toluene	ND		0.048		mg/Kg		05/13/24 13:12	05/18/24 08:30	1
Xylenes, Total	ND		0.096		mg/Kg		05/13/24 13:12	05/18/24 08:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/13/24 13:12*	*05/18/24 08:30*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6		mg/Kg		05/15/24 10:57	05/16/24 15:01	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		05/15/24 10:57	05/16/24 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*	*05/15/24 10:57*	*05/16/24 15:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		60		mg/Kg		05/14/24 07:30	05/14/24 13:43	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-18

Date Collected: 05/08/24 09:42
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-8
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/13/24 13:12	05/18/24 08:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/13/24 13:12*	*05/18/24 08:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 13:12	05/18/24 08:54	1
Ethylbenzene	ND		0.049		mg/Kg		05/13/24 13:12	05/18/24 08:54	1
Toluene	ND		0.049		mg/Kg		05/13/24 13:12	05/18/24 08:54	1
Xylenes, Total	ND		0.098		mg/Kg		05/13/24 13:12	05/18/24 08:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*05/13/24 13:12*	*05/18/24 08:54*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		05/15/24 10:57	05/16/24 15:34	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/15/24 10:57	05/16/24 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*05/15/24 10:57*	*05/16/24 15:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		60		mg/Kg		05/14/24 07:30	05/14/24 13:59	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-19

Date Collected: 05/08/24 09:56
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-9
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/13/24 13:12	05/18/24 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/13/24 13:12*	*05/18/24 09:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		05/13/24 13:12	05/18/24 09:17	1
Ethylbenzene	ND		0.047		mg/Kg		05/13/24 13:12	05/18/24 09:17	1
Toluene	ND		0.047		mg/Kg		05/13/24 13:12	05/18/24 09:17	1
Xylenes, Total	ND		0.094		mg/Kg		05/13/24 13:12	05/18/24 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*05/13/24 13:12*	*05/18/24 09:17*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.5		mg/Kg		05/15/24 10:57	05/16/24 15:45	1
Motor Oil Range Organics [C28-C40]	ND		42		mg/Kg		05/15/24 10:57	05/16/24 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*05/15/24 10:57*	*05/16/24 15:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		60		mg/Kg		05/14/24 07:30	05/14/24 14:14	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-20

Date Collected: 05/08/24 09:58
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-10

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/13/24 13:12	05/18/24 09:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*05/13/24 13:12*	*05/18/24 09:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/13/24 13:12	05/18/24 09:41	1
Ethylbenzene	ND		0.049		mg/Kg		05/13/24 13:12	05/18/24 09:41	1
Toluene	ND		0.049		mg/Kg		05/13/24 13:12	05/18/24 09:41	1
Xylenes, Total	ND		0.098		mg/Kg		05/13/24 13:12	05/18/24 09:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/13/24 13:12*	*05/18/24 09:41*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		05/15/24 10:57	05/16/24 15:56	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/15/24 10:57	05/16/24 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*109*		*62 - 134*	*05/15/24 10:57*	*05/16/24 15:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		05/14/24 07:30	05/14/24 14:59	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-21

Date Collected: 05/08/24 10:10
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-11

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/13/24 13:12	05/18/24 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/13/24 13:12*	*05/18/24 10:05*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/13/24 13:12	05/18/24 10:05	1
Ethylbenzene	ND		0.048		mg/Kg		05/13/24 13:12	05/18/24 10:05	1
Toluene	ND		0.048		mg/Kg		05/13/24 13:12	05/18/24 10:05	1
Xylenes, Total	ND		0.097		mg/Kg		05/13/24 13:12	05/18/24 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*05/13/24 13:12*	*05/18/24 10:05*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		05/15/24 10:57	05/16/24 16:07	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/15/24 10:57	05/16/24 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*05/15/24 10:57*	*05/16/24 16:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		05/14/24 07:30	05/14/24 15:45	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-22

Date Collected: 05/08/24 10:20
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-12

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/13/24 14:02	05/14/24 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/13/24 14:02*	*05/14/24 18:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 14:02	05/14/24 18:26	1
Ethylbenzene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 18:26	1
Toluene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 18:26	1
Xylenes, Total	ND		0.099		mg/Kg		05/13/24 14:02	05/14/24 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/13/24 14:02*	*05/14/24 18:26*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		05/14/24 11:27	05/14/24 16:11	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/14/24 11:27	05/14/24 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*05/14/24 11:27*	*05/14/24 16:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		05/14/24 08:19	05/14/24 17:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-23

Date Collected: 05/08/24 10:24
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-13

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/13/24 14:02	05/14/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*05/13/24 14:02*	*05/14/24 19:32*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 14:02	05/14/24 19:32	1
Ethylbenzene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 19:32	1
Toluene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 19:32	1
Xylenes, Total	ND		0.099		mg/Kg		05/13/24 14:02	05/14/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*05/13/24 14:02*	*05/14/24 19:32*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		05/14/24 11:27	05/14/24 16:21	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/14/24 11:27	05/14/24 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*05/14/24 11:27*	*05/14/24 16:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		05/14/24 08:19	05/14/24 17:23	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-24

Date Collected: 05/08/24 10:26
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-14

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/13/24 14:02	05/14/24 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/13/24 14:02*	*05/14/24 20:37*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/13/24 14:02	05/14/24 20:37	1
Ethylbenzene	ND		0.048		mg/Kg		05/13/24 14:02	05/14/24 20:37	1
Toluene	ND		0.048		mg/Kg		05/13/24 14:02	05/14/24 20:37	1
Xylenes, Total	ND		0.097		mg/Kg		05/13/24 14:02	05/14/24 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*	*05/13/24 14:02*	*05/14/24 20:37*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		05/14/24 11:27	05/14/24 16:32	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/14/24 11:27	05/14/24 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*05/14/24 11:27*	*05/14/24 16:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60		mg/Kg		05/14/24 08:19	05/14/24 17:35	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-25

Date Collected: 05/08/24 10:38
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-15

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/13/24 14:02	05/14/24 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*05/13/24 14:02*	*05/14/24 20:59*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/13/24 14:02	05/14/24 20:59	1
Ethylbenzene	ND		0.047		mg/Kg		05/13/24 14:02	05/14/24 20:59	1
Toluene	ND		0.047		mg/Kg		05/13/24 14:02	05/14/24 20:59	1
Xylenes, Total	ND		0.095		mg/Kg		05/13/24 14:02	05/14/24 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*	*05/13/24 14:02*	*05/14/24 20:59*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		05/14/24 11:27	05/14/24 16:43	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/14/24 11:27	05/14/24 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*05/14/24 11:27*	*05/14/24 16:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		60		mg/Kg		05/14/24 08:19	05/14/24 17:48	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-26

Date Collected: 05/08/24 10:40
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-16

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/13/24 14:02	05/14/24 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/13/24 14:02*	*05/14/24 21:20*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 14:02	05/14/24 21:20	1
Ethylbenzene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 21:20	1
Toluene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 21:20	1
Xylenes, Total	ND		0.098		mg/Kg		05/13/24 14:02	05/14/24 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/13/24 14:02*	*05/14/24 21:20*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		05/14/24 11:27	05/15/24 12:14	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/14/24 11:27	05/15/24 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*05/14/24 11:27*	*05/15/24 12:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		60		mg/Kg		05/14/24 08:19	05/14/24 18:00	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-16

Date Collected: 05/08/24 13:10
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-17

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/13/24 14:02	05/14/24 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/13/24 14:02*	*05/14/24 21:42*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 14:02	05/14/24 21:42	1
Ethylbenzene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 21:42	1
Toluene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 21:42	1
Xylenes, Total	ND		0.099		mg/Kg		05/13/24 14:02	05/14/24 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/13/24 14:02*	*05/14/24 21:42*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		05/14/24 11:27	05/14/24 17:05	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/14/24 11:27	05/14/24 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*05/14/24 11:27*	*05/14/24 17:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**	**F2**	60		mg/Kg		05/14/24 16:00	05/14/24 17:00	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-17

Date Collected: 05/08/24 13:14
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-18

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/13/24 14:02	05/14/24 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/13/24 14:02*	*05/14/24 22:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 14:02	05/14/24 22:04	1
Ethylbenzene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 22:04	1
Toluene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 22:04	1
Xylenes, Total	ND		0.099		mg/Kg		05/13/24 14:02	05/14/24 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/13/24 14:02*	*05/14/24 22:04*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		05/14/24 11:27	05/14/24 17:16	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/14/24 11:27	05/14/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*05/14/24 11:27*	*05/14/24 17:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**	**F2**	60		mg/Kg		05/14/24 16:00	05/14/24 17:16	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-18

Date Collected: 05/08/24 13:20
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-19

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/13/24 14:02	05/14/24 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*05/13/24 14:02*	*05/14/24 22:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/13/24 14:02	05/14/24 22:26	1
Ethylbenzene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 22:26	1
Toluene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 22:26	1
Xylenes, Total	ND		0.098		mg/Kg		05/13/24 14:02	05/14/24 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*05/13/24 14:02*	*05/14/24 22:26*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		05/14/24 11:27	05/15/24 12:38	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/14/24 11:27	05/15/24 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*05/14/24 11:27*	*05/15/24 12:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		59		mg/Kg		05/14/24 16:00	05/14/24 19:02	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-19

Date Collected: 05/08/24 13:24
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-20

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/13/24 14:02	05/14/24 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/13/24 14:02*	*05/14/24 22:47*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/13/24 14:02	05/14/24 22:47	1
Ethylbenzene	ND		0.048		mg/Kg		05/13/24 14:02	05/14/24 22:47	1
Toluene	ND		0.048		mg/Kg		05/13/24 14:02	05/14/24 22:47	1
Xylenes, Total	ND		0.097		mg/Kg		05/13/24 14:02	05/14/24 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/13/24 14:02*	*05/14/24 22:47*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		05/14/24 11:27	05/14/24 17:38	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/14/24 11:27	05/14/24 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*05/14/24 11:27*	*05/14/24 17:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		05/14/24 16:00	05/14/24 19:17	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-20

Date Collected: 05/08/24 13:28
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-21

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/13/24 14:02	05/14/24 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*05/13/24 14:02*	*05/14/24 23:09*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/13/24 14:02	05/14/24 23:09	1
Ethylbenzene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 23:09	1
Toluene	ND		0.049		mg/Kg		05/13/24 14:02	05/14/24 23:09	1
Xylenes, Total	ND		0.097		mg/Kg		05/13/24 14:02	05/14/24 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*05/13/24 14:02*	*05/14/24 23:09*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		05/14/24 11:27	05/14/24 17:48	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/14/24 11:27	05/14/24 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*05/14/24 11:27*	*05/14/24 17:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		05/14/24 16:00	05/14/24 19:32	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-21

Date Collected: 05/08/24 13:40
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-22

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/13/24 14:02	05/14/24 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/13/24 14:02*	*05/14/24 23:53*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 14:02	05/14/24 23:53	1
Ethylbenzene	ND		0.050		mg/Kg		05/13/24 14:02	05/14/24 23:53	1
Toluene	ND		0.050		mg/Kg		05/13/24 14:02	05/14/24 23:53	1
Xylenes, Total	ND		0.10		mg/Kg		05/13/24 14:02	05/14/24 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/13/24 14:02*	*05/14/24 23:53*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		05/14/24 11:27	05/14/24 17:59	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/14/24 11:27	05/14/24 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*05/14/24 11:27*	*05/14/24 17:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		60		mg/Kg		05/14/24 16:00	05/14/24 19:47	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-22

Date Collected: 05/08/24 13:42
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-23

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/13/24 14:02	05/15/24 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*35 - 166*	*05/13/24 14:02*	*05/15/24 00:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 14:02	05/15/24 00:15	1
Ethylbenzene	ND		0.050		mg/Kg		05/13/24 14:02	05/15/24 00:15	1
Toluene	ND		0.050		mg/Kg		05/13/24 14:02	05/15/24 00:15	1
Xylenes, Total	ND		0.10		mg/Kg		05/13/24 14:02	05/15/24 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/13/24 14:02*	*05/15/24 00:15*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		05/14/24 11:27	05/15/24 13:02	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/14/24 11:27	05/15/24 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*05/14/24 11:27*	*05/15/24 13:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		05/14/24 16:00	05/14/24 20:02	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-23

Date Collected: 05/08/24 13:48
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-24

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/13/24 14:02	05/15/24 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*05/13/24 14:02*	*05/15/24 00:36*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 14:02	05/15/24 00:36	1
Ethylbenzene	ND		0.050		mg/Kg		05/13/24 14:02	05/15/24 00:36	1
Toluene	ND		0.050		mg/Kg		05/13/24 14:02	05/15/24 00:36	1
Xylenes, Total	ND		0.10		mg/Kg		05/13/24 14:02	05/15/24 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*48 - 145*	*05/13/24 14:02*	*05/15/24 00:36*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		05/14/24 11:27	05/14/24 18:22	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/14/24 11:27	05/14/24 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*05/14/24 11:27*	*05/14/24 18:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		60		mg/Kg		05/14/24 16:00	05/14/24 20:17	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-24

Date Collected: 05/08/24 14:10
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-25

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/13/24 14:02	05/15/24 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/13/24 14:02*	*05/15/24 00:58*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 14:02	05/15/24 00:58	1
Ethylbenzene	ND		0.050		mg/Kg		05/13/24 14:02	05/15/24 00:58	1
Toluene	ND		0.050		mg/Kg		05/13/24 14:02	05/15/24 00:58	1
Xylenes, Total	ND		0.10		mg/Kg		05/13/24 14:02	05/15/24 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/13/24 14:02*	*05/15/24 00:58*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		05/14/24 11:27	05/14/24 18:33	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/14/24 11:27	05/14/24 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*05/14/24 11:27*	*05/14/24 18:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		60		mg/Kg		05/14/24 16:00	05/14/24 21:03	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-25

Date Collected: 05/08/24 14:14
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-26

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/13/24 14:02	05/15/24 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/13/24 14:02*	*05/15/24 01:20*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 14:02	05/15/24 01:20	1
Ethylbenzene	ND		0.049		mg/Kg		05/13/24 14:02	05/15/24 01:20	1
Toluene	ND		0.049		mg/Kg		05/13/24 14:02	05/15/24 01:20	1
Xylenes, Total	ND		0.098		mg/Kg		05/13/24 14:02	05/15/24 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/13/24 14:02*	*05/15/24 01:20*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		05/14/24 11:27	05/14/24 18:44	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/14/24 11:27	05/14/24 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*05/14/24 11:27*	*05/14/24 18:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		60		mg/Kg		05/14/24 16:00	05/14/24 21:18	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-26

Date Collected: 05/08/24 14:20
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-27

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/13/24 14:02	05/15/24 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/13/24 14:02*	*05/15/24 01:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 14:02	05/15/24 01:41	1
Ethylbenzene	ND		0.050		mg/Kg		05/13/24 14:02	05/15/24 01:41	1
Toluene	ND		0.050		mg/Kg		05/13/24 14:02	05/15/24 01:41	1
Xylenes, Total	ND		0.099		mg/Kg		05/13/24 14:02	05/15/24 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/13/24 14:02*	*05/15/24 01:41*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		05/14/24 11:27	05/14/24 18:55	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/14/24 11:27	05/14/24 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*05/14/24 11:27*	*05/14/24 18:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		05/14/24 16:00	05/14/24 21:33	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-27

Date Collected: 05/08/24 14:24
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-28

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/13/24 14:02	05/15/24 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/13/24 14:02*	*05/15/24 02:03*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/13/24 14:02	05/15/24 02:03	1
Ethylbenzene	ND		0.048		mg/Kg		05/13/24 14:02	05/15/24 02:03	1
Toluene	ND		0.048		mg/Kg		05/13/24 14:02	05/15/24 02:03	1
Xylenes, Total	ND		0.097		mg/Kg		05/13/24 14:02	05/15/24 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/13/24 14:02*	*05/15/24 02:03*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		05/14/24 11:27	05/14/24 19:07	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/14/24 11:27	05/14/24 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*05/14/24 11:27*	*05/14/24 19:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60		mg/Kg		05/14/24 16:00	05/14/24 21:49	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-4852/1-A
Matrix: Solid
Analysis Batch: 5337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4852

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/13/24 13:12	05/17/24 23:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/13/24 13:12*	*05/17/24 23:32*	*1*

Lab Sample ID: LCS 885-4852/2-A
Matrix: Solid
Analysis Batch: 5337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4852

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.2		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*192*	*S1+*	*35 - 166*

Lab Sample ID: MB 885-4861/1-A
Matrix: Solid
Analysis Batch: 5069

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4861

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/13/24 14:02	05/14/24 18:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*35 - 166*	*05/13/24 14:02*	*05/14/24 18:05*	*1*

Lab Sample ID: LCS 885-4861/2-A
Matrix: Solid
Analysis Batch: 5069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4861

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	22.4		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*190*	*S1+*	*35 - 166*

Lab Sample ID: 885-4284-12 MS
Matrix: Solid
Analysis Batch: 5069

Client Sample ID: PWA-22
Prep Type: Total/NA
Prep Batch: 4861

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	25.8		mg/Kg		103	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-4284-12 MS
Matrix: Solid
Analysis Batch: 5069

Client Sample ID: PWA-22
Prep Type: Total/NA
Prep Batch: 4861

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*218*	*S1+*	*35 - 166*

Lab Sample ID: 885-4284-12 MSD
Matrix: Solid
Analysis Batch: 5069

Client Sample ID: PWA-22
Prep Type: Total/NA
Prep Batch: 4861

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.0	26.8		mg/Kg		112	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*224*	*S1+*	*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-4852/1-A
Matrix: Solid
Analysis Batch: 5338

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4852

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 13:12	05/17/24 23:32	1
Ethylbenzene	ND		0.050		mg/Kg		05/13/24 13:12	05/17/24 23:32	1
Toluene	ND		0.050		mg/Kg		05/13/24 13:12	05/17/24 23:32	1
Xylenes, Total	ND		0.10		mg/Kg		05/13/24 13:12	05/17/24 23:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*05/13/24 13:12*	*05/17/24 23:32*	*1*

Lab Sample ID: LCS 885-4852/3-A
Matrix: Solid
Analysis Batch: 5338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4852

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.914		mg/Kg		91	70 - 130		
Ethylbenzene			1.00	0.874		mg/Kg		87	70 - 130		
Toluene			1.00	0.864		mg/Kg		86	70 - 130		
o-Xylene			1.00	0.861		mg/Kg		86	70 - 130		
m,p-Xylene			2.00	1.76		mg/Kg		88	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*

Lab Sample ID: MB 885-4861/1-A
Matrix: Solid
Analysis Batch: 5071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4861

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/13/24 14:02	05/14/24 18:05	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-4861/1-A
Matrix: Solid
Analysis Batch: 5071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4861

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.050		mg/Kg		05/13/24 14:02	05/14/24 18:05	1
Toluene	ND		0.050		mg/Kg		05/13/24 14:02	05/14/24 18:05	1
Xylenes, Total	ND		0.10		mg/Kg		05/13/24 14:02	05/14/24 18:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*	*05/13/24 14:02*	*05/14/24 18:05*	*1*

Lab Sample ID: LCS 885-4861/3-A
Matrix: Solid
Analysis Batch: 5071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4861

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.940		mg/Kg		94	70 - 130		
Ethylbenzene			1.00	0.946		mg/Kg		95	70 - 130		
Toluene			1.00	0.930		mg/Kg		93	70 - 130		
o-Xylene			1.00	0.936		mg/Kg		94	70 - 130		
m,p-Xylene			2.00	1.88		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*

Lab Sample ID: 885-4284-13 MS
Matrix: Solid
Analysis Batch: 5071

Client Sample ID: PWA-23
Prep Type: Total/NA
Prep Batch: 4861

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		1.00	0.989		mg/Kg		99	70 - 130		
Ethylbenzene	ND		1.00	1.02		mg/Kg		102	70 - 130		
Toluene	ND		1.00	0.998		mg/Kg		100	70 - 130		
o-Xylene	ND		1.00	1.01		mg/Kg		101	70 - 130		
m,p-Xylene	ND		2.00	2.02		mg/Kg		101	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*

Lab Sample ID: 885-4284-13 MSD
Matrix: Solid
Analysis Batch: 5071

Client Sample ID: PWA-23
Prep Type: Total/NA
Prep Batch: 4861

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.940	0.895		mg/Kg		95	70 - 130	10	20
Ethylbenzene	ND		0.940	0.928		mg/Kg		99	70 - 130	9	20
Toluene	ND		0.940	0.898		mg/Kg		96	70 - 130	11	20
o-Xylene	ND		0.940	0.926		mg/Kg		99	70 - 130	9	20
m,p-Xylene	ND		1.88	1.85		mg/Kg		98	70 - 130	9	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-4284-13 MSD
Matrix: Solid
Analysis Batch: 5071

Client Sample ID: PWA-23
Prep Type: Total/NA
Prep Batch: 4861

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*

Lab Sample ID: MB 885-5175/1-A
Matrix: Solid
Analysis Batch: 5338

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5175

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/17/24 09:52	05/17/24 11:25	1
Ethylbenzene	ND		0.050		mg/Kg		05/17/24 09:52	05/17/24 11:25	1
Toluene	ND		0.050		mg/Kg		05/17/24 09:52	05/17/24 11:25	1
Xylenes, Total	ND		0.10		mg/Kg		05/17/24 09:52	05/17/24 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/17/24 09:52*	*05/17/24 11:25*	*1*

Lab Sample ID: LCS 885-5175/3-A
Matrix: Solid
Analysis Batch: 5338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5175

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.840		mg/Kg		84	70 - 130		
Ethylbenzene			1.00	0.840		mg/Kg		84	70 - 130		
Toluene			1.00	0.815		mg/Kg		82	70 - 130		
o-Xylene			1.00	0.838		mg/Kg		84	70 - 130		
m,p-Xylene			2.00	1.71		mg/Kg		85	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-4955/1-A
Matrix: Solid
Analysis Batch: 4985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4955

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/14/24 11:27	05/14/24 13:33	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/14/24 11:27	05/14/24 13:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*05/14/24 11:27*	*05/14/24 13:33*	*1*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 885-4955/2-A
Matrix: Solid
Analysis Batch: 5045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4955

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	53.5		mg/Kg		107	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*114*		*62 - 134*

Lab Sample ID: MB 885-5020/1-A
Matrix: Solid
Analysis Batch: 5138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5020

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/15/24 10:57	05/16/24 09:56	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/15/24 10:57	05/16/24 09:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*05/15/24 10:57*	*05/16/24 09:56*	*1*

Lab Sample ID: LCS 885-5020/2-A
Matrix: Solid
Analysis Batch: 5138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5020

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	47.5		mg/Kg		95	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*

Lab Sample ID: 885-4284-11 MS
Matrix: Solid
Analysis Batch: 5138

Client Sample ID: PWA-21
Prep Type: Total/NA
Prep Batch: 5020

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		46.1	36.9		mg/Kg		80	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*

Lab Sample ID: 885-4284-11 MSD
Matrix: Solid
Analysis Batch: 5138

Client Sample ID: PWA-21
Prep Type: Total/NA
Prep Batch: 5020

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		47.0	33.3		mg/Kg		71	44 - 136	10	32

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-4284-11 MSD
Matrix: Solid
Analysis Batch: 5138

Client Sample ID: PWA-21
Prep Type: Total/NA
Prep Batch: 5020

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	73		62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-4899/1-A
Matrix: Solid
Analysis Batch: 5015

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4899

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		05/14/24 07:30	05/14/24 08:52	1

Lab Sample ID: LCS 885-4899/2-A
Matrix: Solid
Analysis Batch: 5015

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4899

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.3		mg/Kg		94	90 - 110		

Lab Sample ID: 885-4284-10 MS
Matrix: Solid
Analysis Batch: 5015

Client Sample ID: PWA-20
Prep Type: Total/NA
Prep Batch: 4899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	160		30.1	207	4	mg/Kg		155	50 - 150		

Lab Sample ID: 885-4284-10 MSD
Matrix: Solid
Analysis Batch: 5015

Client Sample ID: PWA-20
Prep Type: Total/NA
Prep Batch: 4899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	160		29.9	206	4	mg/Kg		152	50 - 150	1	20

Lab Sample ID: 885-4284-11 MS
Matrix: Solid
Analysis Batch: 5015

Client Sample ID: PWA-21
Prep Type: Total/NA
Prep Batch: 4899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	190		30.2	226	4	mg/Kg		120	50 - 150		

Lab Sample ID: 885-4284-11 MSD
Matrix: Solid
Analysis Batch: 5015

Client Sample ID: PWA-21
Prep Type: Total/NA
Prep Batch: 4899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	190		30.1	197	4	mg/Kg		24	50 - 150	14	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-4912/1-A
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4912

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		05/14/24 08:19	05/14/24 09:02	1

Lab Sample ID: LCS 885-4912/2-A
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4912

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.5		mg/Kg		98	90 - 110		

Lab Sample ID: MB 885-4979/1-A
Matrix: Solid
Analysis Batch: 5015

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4979

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		05/14/24 16:00	05/14/24 16:30	1

Lab Sample ID: LCS 885-4979/2-A
Matrix: Solid
Analysis Batch: 5015

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4979

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	13.8		mg/Kg		92	90 - 110		

Lab Sample ID: 885-4284-17 MS
Matrix: Solid
Analysis Batch: 5015

Client Sample ID: PBA-16
Prep Type: Total/NA
Prep Batch: 4979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	140	F2	30.0	242	4	mg/Kg		336	50 - 150		

Lab Sample ID: 885-4284-17 MSD
Matrix: Solid
Analysis Batch: 5015

Client Sample ID: PBA-16
Prep Type: Total/NA
Prep Batch: 4979

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	140	F2	29.8	173	4 F2	mg/Kg		106	50 - 150	33	20

Lab Sample ID: 885-4284-18 MS
Matrix: Solid
Analysis Batch: 5015

Client Sample ID: PBA-17
Prep Type: Total/NA
Prep Batch: 4979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	180	F2	30.0	169	4	mg/Kg		-26	50 - 150		

Lab Sample ID: 885-4284-18 MSD
Matrix: Solid
Analysis Batch: 5015

Client Sample ID: PBA-17
Prep Type: Total/NA
Prep Batch: 4979

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	180	F2	30.2	210	4 F2	mg/Kg		108	50 - 150	21	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-5006/65
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/Kg			05/14/24 18:25	1

Lab Sample ID: MRL 885-5006/64
Matrix: Solid
Analysis Batch: 5006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.540		mg/L		108	50 - 150		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

GC VOA

Prep Batch: 4852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-1	PWA-11	Total/NA	Solid	5030C	
885-4284-2	PWA-12	Total/NA	Solid	5030C	
885-4284-3	PWA-13	Total/NA	Solid	5030C	
885-4284-4	PWA-14	Total/NA	Solid	5030C	
885-4284-5	PWA-15	Total/NA	Solid	5030C	
885-4284-6	PWA-16	Total/NA	Solid	5030C	
885-4284-7	PWA-17	Total/NA	Solid	5030C	
885-4284-8	PWA-18	Total/NA	Solid	5030C	
885-4284-9	PWA-19	Total/NA	Solid	5030C	
885-4284-10	PWA-20	Total/NA	Solid	5030C	
885-4284-11	PWA-21	Total/NA	Solid	5030C	
MB 885-4852/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-4852/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-4852/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 4861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-12	PWA-22	Total/NA	Solid	5030C	
885-4284-13	PWA-23	Total/NA	Solid	5030C	
885-4284-14	PWA-24	Total/NA	Solid	5030C	
885-4284-15	PWA-25	Total/NA	Solid	5030C	
885-4284-16	PWA-26	Total/NA	Solid	5030C	
885-4284-17	PBA-16	Total/NA	Solid	5030C	
885-4284-18	PBA-17	Total/NA	Solid	5030C	
885-4284-19	PBA-18	Total/NA	Solid	5030C	
885-4284-20	PBA-19	Total/NA	Solid	5030C	
885-4284-21	PBA-20	Total/NA	Solid	5030C	
885-4284-22	PBA-21	Total/NA	Solid	5030C	
885-4284-23	PBA-22	Total/NA	Solid	5030C	
885-4284-24	PBA-23	Total/NA	Solid	5030C	
885-4284-25	PBA-24	Total/NA	Solid	5030C	
885-4284-26	PBA-25	Total/NA	Solid	5030C	
885-4284-27	PBA-26	Total/NA	Solid	5030C	
885-4284-28	PBA-27	Total/NA	Solid	5030C	
MB 885-4861/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-4861/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-4861/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-4284-12 MS	PWA-22	Total/NA	Solid	5030C	
885-4284-12 MSD	PWA-22	Total/NA	Solid	5030C	
885-4284-13 MS	PWA-23	Total/NA	Solid	5030C	
885-4284-13 MSD	PWA-23	Total/NA	Solid	5030C	

Analysis Batch: 5069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-12	PWA-22	Total/NA	Solid	8015D	4861
885-4284-13	PWA-23	Total/NA	Solid	8015D	4861
885-4284-14	PWA-24	Total/NA	Solid	8015D	4861
885-4284-15	PWA-25	Total/NA	Solid	8015D	4861
885-4284-16	PWA-26	Total/NA	Solid	8015D	4861
885-4284-17	PBA-16	Total/NA	Solid	8015D	4861
885-4284-18	PBA-17	Total/NA	Solid	8015D	4861

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

GC VOA (Continued)

Analysis Batch: 5069 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-19	PBA-18	Total/NA	Solid	8015D	4861
885-4284-20	PBA-19	Total/NA	Solid	8015D	4861
885-4284-21	PBA-20	Total/NA	Solid	8015D	4861
885-4284-22	PBA-21	Total/NA	Solid	8015D	4861
885-4284-23	PBA-22	Total/NA	Solid	8015D	4861
885-4284-24	PBA-23	Total/NA	Solid	8015D	4861
885-4284-25	PBA-24	Total/NA	Solid	8015D	4861
885-4284-26	PBA-25	Total/NA	Solid	8015D	4861
885-4284-27	PBA-26	Total/NA	Solid	8015D	4861
885-4284-28	PBA-27	Total/NA	Solid	8015D	4861
MB 885-4861/1-A	Method Blank	Total/NA	Solid	8015D	4861
LCS 885-4861/2-A	Lab Control Sample	Total/NA	Solid	8015D	4861
885-4284-12 MS	PWA-22	Total/NA	Solid	8015D	4861
885-4284-12 MSD	PWA-22	Total/NA	Solid	8015D	4861

Analysis Batch: 5071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-12	PWA-22	Total/NA	Solid	8021B	4861
885-4284-13	PWA-23	Total/NA	Solid	8021B	4861
885-4284-14	PWA-24	Total/NA	Solid	8021B	4861
885-4284-15	PWA-25	Total/NA	Solid	8021B	4861
885-4284-16	PWA-26	Total/NA	Solid	8021B	4861
885-4284-17	PBA-16	Total/NA	Solid	8021B	4861
885-4284-18	PBA-17	Total/NA	Solid	8021B	4861
885-4284-19	PBA-18	Total/NA	Solid	8021B	4861
885-4284-20	PBA-19	Total/NA	Solid	8021B	4861
885-4284-21	PBA-20	Total/NA	Solid	8021B	4861
885-4284-22	PBA-21	Total/NA	Solid	8021B	4861
885-4284-23	PBA-22	Total/NA	Solid	8021B	4861
885-4284-24	PBA-23	Total/NA	Solid	8021B	4861
885-4284-25	PBA-24	Total/NA	Solid	8021B	4861
885-4284-26	PBA-25	Total/NA	Solid	8021B	4861
885-4284-27	PBA-26	Total/NA	Solid	8021B	4861
885-4284-28	PBA-27	Total/NA	Solid	8021B	4861
MB 885-4861/1-A	Method Blank	Total/NA	Solid	8021B	4861
LCS 885-4861/3-A	Lab Control Sample	Total/NA	Solid	8021B	4861
885-4284-13 MS	PWA-23	Total/NA	Solid	8021B	4861
885-4284-13 MSD	PWA-23	Total/NA	Solid	8021B	4861

Prep Batch: 5175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-5175/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-5175/3-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 5337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-1	PWA-11	Total/NA	Solid	8015D	4852
885-4284-2	PWA-12	Total/NA	Solid	8015D	4852
885-4284-3	PWA-13	Total/NA	Solid	8015D	4852
885-4284-4	PWA-14	Total/NA	Solid	8015D	4852
885-4284-5	PWA-15	Total/NA	Solid	8015D	4852

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

GC VOA (Continued)

Analysis Batch: 5337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-6	PWA-16	Total/NA	Solid	8015D	4852
885-4284-7	PWA-17	Total/NA	Solid	8015D	4852
885-4284-8	PWA-18	Total/NA	Solid	8015D	4852
885-4284-9	PWA-19	Total/NA	Solid	8015D	4852
885-4284-10	PWA-20	Total/NA	Solid	8015D	4852
885-4284-11	PWA-21	Total/NA	Solid	8015D	4852
MB 885-4852/1-A	Method Blank	Total/NA	Solid	8015D	4852
LCS 885-4852/2-A	Lab Control Sample	Total/NA	Solid	8015D	4852

Analysis Batch: 5338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-1	PWA-11	Total/NA	Solid	8021B	4852
885-4284-2	PWA-12	Total/NA	Solid	8021B	4852
885-4284-3	PWA-13	Total/NA	Solid	8021B	4852
885-4284-4	PWA-14	Total/NA	Solid	8021B	4852
885-4284-5	PWA-15	Total/NA	Solid	8021B	4852
885-4284-6	PWA-16	Total/NA	Solid	8021B	4852
885-4284-7	PWA-17	Total/NA	Solid	8021B	4852
885-4284-8	PWA-18	Total/NA	Solid	8021B	4852
885-4284-9	PWA-19	Total/NA	Solid	8021B	4852
885-4284-10	PWA-20	Total/NA	Solid	8021B	4852
885-4284-11	PWA-21	Total/NA	Solid	8021B	4852
MB 885-4852/1-A	Method Blank	Total/NA	Solid	8021B	4852
MB 885-5175/1-A	Method Blank	Total/NA	Solid	8021B	5175
LCS 885-4852/3-A	Lab Control Sample	Total/NA	Solid	8021B	4852
LCS 885-5175/3-A	Lab Control Sample	Total/NA	Solid	8021B	5175

GC Semi VOA

Prep Batch: 4955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-12	PWA-22	Total/NA	Solid	SHAKE	
885-4284-13	PWA-23	Total/NA	Solid	SHAKE	
885-4284-14	PWA-24	Total/NA	Solid	SHAKE	
885-4284-15	PWA-25	Total/NA	Solid	SHAKE	
885-4284-16	PWA-26	Total/NA	Solid	SHAKE	
885-4284-17	PBA-16	Total/NA	Solid	SHAKE	
885-4284-18	PBA-17	Total/NA	Solid	SHAKE	
885-4284-19	PBA-18	Total/NA	Solid	SHAKE	
885-4284-20	PBA-19	Total/NA	Solid	SHAKE	
885-4284-21	PBA-20	Total/NA	Solid	SHAKE	
885-4284-22	PBA-21	Total/NA	Solid	SHAKE	
885-4284-23	PBA-22	Total/NA	Solid	SHAKE	
885-4284-24	PBA-23	Total/NA	Solid	SHAKE	
885-4284-25	PBA-24	Total/NA	Solid	SHAKE	
885-4284-26	PBA-25	Total/NA	Solid	SHAKE	
885-4284-27	PBA-26	Total/NA	Solid	SHAKE	
885-4284-28	PBA-27	Total/NA	Solid	SHAKE	
MB 885-4955/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-4955/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

GC Semi VOA

Analysis Batch: 4985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-12	PWA-22	Total/NA	Solid	8015D	4955
885-4284-13	PWA-23	Total/NA	Solid	8015D	4955
885-4284-14	PWA-24	Total/NA	Solid	8015D	4955
885-4284-15	PWA-25	Total/NA	Solid	8015D	4955
885-4284-17	PBA-16	Total/NA	Solid	8015D	4955
885-4284-18	PBA-17	Total/NA	Solid	8015D	4955
885-4284-20	PBA-19	Total/NA	Solid	8015D	4955
885-4284-21	PBA-20	Total/NA	Solid	8015D	4955
885-4284-22	PBA-21	Total/NA	Solid	8015D	4955
885-4284-24	PBA-23	Total/NA	Solid	8015D	4955
885-4284-25	PBA-24	Total/NA	Solid	8015D	4955
885-4284-26	PBA-25	Total/NA	Solid	8015D	4955
885-4284-27	PBA-26	Total/NA	Solid	8015D	4955
885-4284-28	PBA-27	Total/NA	Solid	8015D	4955
MB 885-4955/1-A	Method Blank	Total/NA	Solid	8015D	4955

Prep Batch: 5020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-1	PWA-11	Total/NA	Solid	SHAKE	
885-4284-2	PWA-12	Total/NA	Solid	SHAKE	
885-4284-3	PWA-13	Total/NA	Solid	SHAKE	
885-4284-4	PWA-14	Total/NA	Solid	SHAKE	
885-4284-5	PWA-15	Total/NA	Solid	SHAKE	
885-4284-6	PWA-16	Total/NA	Solid	SHAKE	
885-4284-7	PWA-17	Total/NA	Solid	SHAKE	
885-4284-8	PWA-18	Total/NA	Solid	SHAKE	
885-4284-9	PWA-19	Total/NA	Solid	SHAKE	
885-4284-10	PWA-20	Total/NA	Solid	SHAKE	
885-4284-11	PWA-21	Total/NA	Solid	SHAKE	
MB 885-5020/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-5020/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-4284-11 MS	PWA-21	Total/NA	Solid	SHAKE	
885-4284-11 MSD	PWA-21	Total/NA	Solid	SHAKE	

Analysis Batch: 5045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-16	PWA-26	Total/NA	Solid	8015D	4955
885-4284-19	PBA-18	Total/NA	Solid	8015D	4955
885-4284-23	PBA-22	Total/NA	Solid	8015D	4955
LCS 885-4955/2-A	Lab Control Sample	Total/NA	Solid	8015D	4955

Analysis Batch: 5138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-1	PWA-11	Total/NA	Solid	8015D	5020
885-4284-2	PWA-12	Total/NA	Solid	8015D	5020
885-4284-3	PWA-13	Total/NA	Solid	8015D	5020
885-4284-4	PWA-14	Total/NA	Solid	8015D	5020
885-4284-5	PWA-15	Total/NA	Solid	8015D	5020
885-4284-6	PWA-16	Total/NA	Solid	8015D	5020
885-4284-7	PWA-17	Total/NA	Solid	8015D	5020
885-4284-8	PWA-18	Total/NA	Solid	8015D	5020

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

GC Semi VOA (Continued)

Analysis Batch: 5138 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-9	PWA-19	Total/NA	Solid	8015D	5020
885-4284-10	PWA-20	Total/NA	Solid	8015D	5020
885-4284-11	PWA-21	Total/NA	Solid	8015D	5020
MB 885-5020/1-A	Method Blank	Total/NA	Solid	8015D	5020
LCS 885-5020/2-A	Lab Control Sample	Total/NA	Solid	8015D	5020
885-4284-11 MS	PWA-21	Total/NA	Solid	8015D	5020
885-4284-11 MSD	PWA-21	Total/NA	Solid	8015D	5020

HPLC/IC

Prep Batch: 4899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-1	PWA-11	Total/NA	Solid	300_Prep	
885-4284-2	PWA-12	Total/NA	Solid	300_Prep	
885-4284-3	PWA-13	Total/NA	Solid	300_Prep	
885-4284-4	PWA-14	Total/NA	Solid	300_Prep	
885-4284-5	PWA-15	Total/NA	Solid	300_Prep	
885-4284-6	PWA-16	Total/NA	Solid	300_Prep	
885-4284-7	PWA-17	Total/NA	Solid	300_Prep	
885-4284-8	PWA-18	Total/NA	Solid	300_Prep	
885-4284-9	PWA-19	Total/NA	Solid	300_Prep	
885-4284-10	PWA-20	Total/NA	Solid	300_Prep	
885-4284-11	PWA-21	Total/NA	Solid	300_Prep	
MB 885-4899/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-4899/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-4284-10 MS	PWA-20	Total/NA	Solid	300_Prep	
885-4284-10 MSD	PWA-20	Total/NA	Solid	300_Prep	
885-4284-11 MS	PWA-21	Total/NA	Solid	300_Prep	
885-4284-11 MSD	PWA-21	Total/NA	Solid	300_Prep	

Prep Batch: 4912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-12	PWA-22	Total/NA	Solid	300_Prep	
885-4284-13	PWA-23	Total/NA	Solid	300_Prep	
885-4284-14	PWA-24	Total/NA	Solid	300_Prep	
885-4284-15	PWA-25	Total/NA	Solid	300_Prep	
885-4284-16	PWA-26	Total/NA	Solid	300_Prep	
MB 885-4912/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-4912/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 4979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-17	PBA-16	Total/NA	Solid	300_Prep	
885-4284-18	PBA-17	Total/NA	Solid	300_Prep	
885-4284-19	PBA-18	Total/NA	Solid	300_Prep	
885-4284-20	PBA-19	Total/NA	Solid	300_Prep	
885-4284-21	PBA-20	Total/NA	Solid	300_Prep	
885-4284-22	PBA-21	Total/NA	Solid	300_Prep	
885-4284-23	PBA-22	Total/NA	Solid	300_Prep	
885-4284-24	PBA-23	Total/NA	Solid	300_Prep	
885-4284-25	PBA-24	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

HPLC/IC (Continued)

Prep Batch: 4979 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-26	PBA-25	Total/NA	Solid	300_Prep	
885-4284-27	PBA-26	Total/NA	Solid	300_Prep	
885-4284-28	PBA-27	Total/NA	Solid	300_Prep	
MB 885-4979/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-4979/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-4284-17 MS	PBA-16	Total/NA	Solid	300_Prep	
885-4284-17 MSD	PBA-16	Total/NA	Solid	300_Prep	
885-4284-18 MS	PBA-17	Total/NA	Solid	300_Prep	
885-4284-18 MSD	PBA-17	Total/NA	Solid	300_Prep	

Analysis Batch: 5006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-12	PWA-22	Total/NA	Solid	300.0	4912
885-4284-13	PWA-23	Total/NA	Solid	300.0	4912
885-4284-14	PWA-24	Total/NA	Solid	300.0	4912
885-4284-15	PWA-25	Total/NA	Solid	300.0	4912
885-4284-16	PWA-26	Total/NA	Solid	300.0	4912
MB 885-4912/1-A	Method Blank	Total/NA	Solid	300.0	4912
MB 885-5006/65	Method Blank	Total/NA	Solid	300.0	
LCS 885-4912/2-A	Lab Control Sample	Total/NA	Solid	300.0	4912
MRL 885-5006/64	Lab Control Sample	Total/NA	Solid	300.0	

Analysis Batch: 5015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-1	PWA-11	Total/NA	Solid	300.0	4899
885-4284-2	PWA-12	Total/NA	Solid	300.0	4899
885-4284-3	PWA-13	Total/NA	Solid	300.0	4899
885-4284-4	PWA-14	Total/NA	Solid	300.0	4899
885-4284-5	PWA-15	Total/NA	Solid	300.0	4899
885-4284-6	PWA-16	Total/NA	Solid	300.0	4899
885-4284-7	PWA-17	Total/NA	Solid	300.0	4899
885-4284-8	PWA-18	Total/NA	Solid	300.0	4899
885-4284-9	PWA-19	Total/NA	Solid	300.0	4899
885-4284-10	PWA-20	Total/NA	Solid	300.0	4899
885-4284-11	PWA-21	Total/NA	Solid	300.0	4899
885-4284-17	PBA-16	Total/NA	Solid	300.0	4979
885-4284-18	PBA-17	Total/NA	Solid	300.0	4979
885-4284-19	PBA-18	Total/NA	Solid	300.0	4979
885-4284-20	PBA-19	Total/NA	Solid	300.0	4979
885-4284-21	PBA-20	Total/NA	Solid	300.0	4979
885-4284-22	PBA-21	Total/NA	Solid	300.0	4979
885-4284-23	PBA-22	Total/NA	Solid	300.0	4979
885-4284-24	PBA-23	Total/NA	Solid	300.0	4979
885-4284-25	PBA-24	Total/NA	Solid	300.0	4979
885-4284-26	PBA-25	Total/NA	Solid	300.0	4979
885-4284-27	PBA-26	Total/NA	Solid	300.0	4979
885-4284-28	PBA-27	Total/NA	Solid	300.0	4979
MB 885-4899/1-A	Method Blank	Total/NA	Solid	300.0	4899
MB 885-4979/1-A	Method Blank	Total/NA	Solid	300.0	4979
LCS 885-4899/2-A	Lab Control Sample	Total/NA	Solid	300.0	4899
LCS 885-4979/2-A	Lab Control Sample	Total/NA	Solid	300.0	4979

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

HPLC/IC (Continued)

Analysis Batch: 5015 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4284-10 MS	PWA-20	Total/NA	Solid	300.0	4899
885-4284-10 MSD	PWA-20	Total/NA	Solid	300.0	4899
885-4284-11 MS	PWA-21	Total/NA	Solid	300.0	4899
885-4284-11 MSD	PWA-21	Total/NA	Solid	300.0	4899
885-4284-17 MS	PBA-16	Total/NA	Solid	300.0	4979
885-4284-17 MSD	PBA-16	Total/NA	Solid	300.0	4979
885-4284-18 MS	PBA-17	Total/NA	Solid	300.0	4979
885-4284-18 MSD	PBA-17	Total/NA	Solid	300.0	4979

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-11

Lab Sample ID: 885-4284-1
Matrix: Solid
Date Collected: 05/08/24 09:10
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/18/24 05:22
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/18/24 05:22
Total/NA	Prep	SHAKE			5020	DH	EET ALB	05/15/24 10:57
Total/NA	Analysis	8015D		1	5138	DH	EET ALB	05/16/24 13:56
Total/NA	Prep	300_Prep			4899	JT	EET ALB	05/14/24 07:30
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 12:13

Client Sample ID: PWA-12

Lab Sample ID: 885-4284-2
Matrix: Solid
Date Collected: 05/08/24 09:12
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/18/24 06:32
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/18/24 06:32
Total/NA	Prep	SHAKE			5020	DH	EET ALB	05/15/24 10:57
Total/NA	Analysis	8015D		1	5138	DH	EET ALB	05/16/24 14:07
Total/NA	Prep	300_Prep			4899	JT	EET ALB	05/14/24 07:30
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 12:28

Client Sample ID: PWA-13

Lab Sample ID: 885-4284-3
Matrix: Solid
Date Collected: 05/08/24 09:20
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/18/24 06:55
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/18/24 06:55
Total/NA	Prep	SHAKE			5020	DH	EET ALB	05/15/24 10:57
Total/NA	Analysis	8015D		1	5138	DH	EET ALB	05/16/24 14:18
Total/NA	Prep	300_Prep			4899	JT	EET ALB	05/14/24 07:30
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 12:43

Client Sample ID: PWA-14

Lab Sample ID: 885-4284-4
Matrix: Solid
Date Collected: 05/08/24 09:24
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/18/24 07:19

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-14

Lab Sample ID: 885-4284-4
Matrix: Solid
Date Collected: 05/08/24 09:24
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/18/24 07:19
Total/NA	Prep	SHAKE			5020	DH	EET ALB	05/15/24 10:57
Total/NA	Analysis	8015D		1	5138	DH	EET ALB	05/16/24 14:29
Total/NA	Prep	300_Prep			4899	JT	EET ALB	05/14/24 07:30
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 12:58

Client Sample ID: PWA-15

Lab Sample ID: 885-4284-5
Matrix: Solid
Date Collected: 05/08/24 09:28
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/18/24 07:43
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/18/24 07:43
Total/NA	Prep	SHAKE			5020	DH	EET ALB	05/15/24 10:57
Total/NA	Analysis	8015D		1	5138	DH	EET ALB	05/16/24 14:39
Total/NA	Prep	300_Prep			4899	JT	EET ALB	05/14/24 07:30
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 13:13

Client Sample ID: PWA-16

Lab Sample ID: 885-4284-6
Matrix: Solid
Date Collected: 05/08/24 09:38
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/18/24 08:06
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/18/24 08:06
Total/NA	Prep	SHAKE			5020	DH	EET ALB	05/15/24 10:57
Total/NA	Analysis	8015D		1	5138	DH	EET ALB	05/16/24 14:50
Total/NA	Prep	300_Prep			4899	JT	EET ALB	05/14/24 07:30
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 13:28

Client Sample ID: PWA-17

Lab Sample ID: 885-4284-7
Matrix: Solid
Date Collected: 05/08/24 09:40
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/18/24 08:30
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/18/24 08:30

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-4284-1
Project/Site: Roy SWD #3

Client Sample ID: PWA-17
Lab Sample ID: 885-4284-7
Date Collected: 05/08/24 09:40
Matrix: Solid
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			5020	DH	EET ALB	05/15/24 10:57
Total/NA	Analysis	8015D		1	5138	DH	EET ALB	05/16/24 15:01
Total/NA	Prep	300_Prep			4899	JT	EET ALB	05/14/24 07:30
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 13:43

Client Sample ID: PWA-18
Lab Sample ID: 885-4284-8
Date Collected: 05/08/24 09:42
Matrix: Solid
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/18/24 08:54
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/18/24 08:54
Total/NA	Prep	SHAKE			5020	DH	EET ALB	05/15/24 10:57
Total/NA	Analysis	8015D		1	5138	DH	EET ALB	05/16/24 15:34
Total/NA	Prep	300_Prep			4899	JT	EET ALB	05/14/24 07:30
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 13:59

Client Sample ID: PWA-19
Lab Sample ID: 885-4284-9
Date Collected: 05/08/24 09:56
Matrix: Solid
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/18/24 09:17
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/18/24 09:17
Total/NA	Prep	SHAKE			5020	DH	EET ALB	05/15/24 10:57
Total/NA	Analysis	8015D		1	5138	DH	EET ALB	05/16/24 15:45
Total/NA	Prep	300_Prep			4899	JT	EET ALB	05/14/24 07:30
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 14:14

Client Sample ID: PWA-20
Lab Sample ID: 885-4284-10
Date Collected: 05/08/24 09:58
Matrix: Solid
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/18/24 09:41
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/18/24 09:41
Total/NA	Prep	SHAKE			5020	DH	EET ALB	05/15/24 10:57
Total/NA	Analysis	8015D		1	5138	DH	EET ALB	05/16/24 15:56

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-20

Lab Sample ID: 885-4284-10
Matrix: Solid
Date Collected: 05/08/24 09:58
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			4899	JT	EET ALB	05/14/24 07:30
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 14:59

Client Sample ID: PWA-21

Lab Sample ID: 885-4284-11
Matrix: Solid
Date Collected: 05/08/24 10:10
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8015D		1	5337	JP	EET ALB	05/18/24 10:05
Total/NA	Prep	5030C			4852	JP	EET ALB	05/13/24 13:12
Total/NA	Analysis	8021B		1	5338	JP	EET ALB	05/18/24 10:05
Total/NA	Prep	SHAKE			5020	DH	EET ALB	05/15/24 10:57
Total/NA	Analysis	8015D		1	5138	DH	EET ALB	05/16/24 16:07
Total/NA	Prep	300_Prep			4899	JT	EET ALB	05/14/24 07:30
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 15:45

Client Sample ID: PWA-22

Lab Sample ID: 885-4284-12
Matrix: Solid
Date Collected: 05/08/24 10:20
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/14/24 18:26
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/14/24 18:26
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 16:11
Total/NA	Prep	300_Prep			4912	JT	EET ALB	05/14/24 08:19
Total/NA	Analysis	300.0		20	5006	SS	EET ALB	05/14/24 17:11

Client Sample ID: PWA-23

Lab Sample ID: 885-4284-13
Matrix: Solid
Date Collected: 05/08/24 10:24
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/14/24 19:32
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/14/24 19:32
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 16:21
Total/NA	Prep	300_Prep			4912	JT	EET ALB	05/14/24 08:19
Total/NA	Analysis	300.0		20	5006	SS	EET ALB	05/14/24 17:23

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PWA-24

Lab Sample ID: 885-4284-14

Date Collected: 05/08/24 10:26
Date Received: 05/10/24 09:10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/14/24 20:37
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/14/24 20:37
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 16:32
Total/NA	Prep	300_Prep			4912	JT	EET ALB	05/14/24 08:19
Total/NA	Analysis	300.0		20	5006	SS	EET ALB	05/14/24 17:35

Client Sample ID: PWA-25

Lab Sample ID: 885-4284-15

Date Collected: 05/08/24 10:38
Date Received: 05/10/24 09:10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/14/24 20:59
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/14/24 20:59
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 16:43
Total/NA	Prep	300_Prep			4912	JT	EET ALB	05/14/24 08:19
Total/NA	Analysis	300.0		20	5006	SS	EET ALB	05/14/24 17:48

Client Sample ID: PWA-26

Lab Sample ID: 885-4284-16

Date Collected: 05/08/24 10:40
Date Received: 05/10/24 09:10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/14/24 21:20
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/14/24 21:20
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	5045	JU	EET ALB	05/15/24 12:14
Total/NA	Prep	300_Prep			4912	JT	EET ALB	05/14/24 08:19
Total/NA	Analysis	300.0		20	5006	SS	EET ALB	05/14/24 18:00

Client Sample ID: PBA-16

Lab Sample ID: 885-4284-17

Date Collected: 05/08/24 13:10
Date Received: 05/10/24 09:10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/14/24 21:42

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-16

Date Collected: 05/08/24 13:10
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/14/24 21:42
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 17:05
Total/NA	Prep	300_Prep			4979	SS	EET ALB	05/14/24 16:00
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 17:00

Client Sample ID: PBA-17

Date Collected: 05/08/24 13:14
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/14/24 22:04
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/14/24 22:04
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 17:16
Total/NA	Prep	300_Prep			4979	SS	EET ALB	05/14/24 16:00
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 17:16

Client Sample ID: PBA-18

Date Collected: 05/08/24 13:20
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/14/24 22:26
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/14/24 22:26
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	5045	JU	EET ALB	05/15/24 12:38
Total/NA	Prep	300_Prep			4979	SS	EET ALB	05/14/24 16:00
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 19:02

Client Sample ID: PBA-19

Date Collected: 05/08/24 13:24
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/14/24 22:47
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/14/24 22:47

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-19
Date Collected: 05/08/24 13:24
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 17:38
Total/NA	Prep	300_Prep			4979	SS	EET ALB	05/14/24 16:00
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 19:17

Client Sample ID: PBA-20
Date Collected: 05/08/24 13:28
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/14/24 23:09
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/14/24 23:09
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 17:48
Total/NA	Prep	300_Prep			4979	SS	EET ALB	05/14/24 16:00
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 19:32

Client Sample ID: PBA-21
Date Collected: 05/08/24 13:40
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/14/24 23:53
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/14/24 23:53
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 17:59
Total/NA	Prep	300_Prep			4979	SS	EET ALB	05/14/24 16:00
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 19:47

Client Sample ID: PBA-22
Date Collected: 05/08/24 13:42
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/15/24 00:15
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/15/24 00:15
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	5045	JU	EET ALB	05/15/24 13:02

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4284-1

Client Sample ID: PBA-22
Date Collected: 05/08/24 13:42
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			4979	SS	EET ALB	05/14/24 16:00
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 20:02

Client Sample ID: PBA-23
Date Collected: 05/08/24 13:48
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/15/24 00:36
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/15/24 00:36
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 18:22
Total/NA	Prep	300_Prep			4979	SS	EET ALB	05/14/24 16:00
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 20:17

Client Sample ID: PBA-24
Date Collected: 05/08/24 14:10
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/15/24 00:58
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/15/24 00:58
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 18:33
Total/NA	Prep	300_Prep			4979	SS	EET ALB	05/14/24 16:00
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 21:03

Client Sample ID: PBA-25
Date Collected: 05/08/24 14:14
Date Received: 05/10/24 09:10

Lab Sample ID: 885-4284-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/15/24 01:20
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/15/24 01:20
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 18:44
Total/NA	Prep	300_Prep			4979	SS	EET ALB	05/14/24 16:00
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 21:18

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-4284-1
Project/Site: Roy SWD #3

Client Sample ID: PBA-26
Lab Sample ID: 885-4284-27
Date Collected: 05/08/24 14:20
Matrix: Solid
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/15/24 01:41
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/15/24 01:41
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 18:55
Total/NA	Prep	300_Prep			4979	SS	EET ALB	05/14/24 16:00
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 21:33

Client Sample ID: PBA-27
Lab Sample ID: 885-4284-28
Date Collected: 05/08/24 14:24
Matrix: Solid
Date Received: 05/10/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8015D		1	5069	RA	EET ALB	05/15/24 02:03
Total/NA	Prep	5030C			4861	AT	EET ALB	05/13/24 14:02
Total/NA	Analysis	8021B		1	5071	RA	EET ALB	05/15/24 02:03
Total/NA	Prep	SHAKE			4955	JU	EET ALB	05/14/24 11:27
Total/NA	Analysis	8015D		1	4985	JU	EET ALB	05/14/24 19:07
Total/NA	Prep	300_Prep			4979	SS	EET ALB	05/14/24 16:00
Total/NA	Analysis	300.0		20	5015	SS	EET ALB	05/14/24 21:49

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-4284-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1 Yogi

Cooler Temp(Including CF): 0.4 +0.0=0.4°c

HALL ENVIRONMENTAL ANALYSIS L OR

4901 Hawkins NE - Albuquerque

Tel. 505-345-3975 Fax 505-3

885-4284 coc

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
5/8/21	0910	soil	PWA-11	1x4oz Jar	ICE	1	X	X	X
	0912		PWA-12			2			
	0920		PWA-13			3			
	0924		PWA-14			4			
	0928		PWA-15			5			
	0938		PWA-16			6			
	0940		PWA-17			7			
	0942		PWA-18			8			
	0956		PWA-19			9			
	0958		PWA-20			10			
	1010		PWA-21			11			
	1020		PWA-22			12			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/9/24	830				5/9/24	830
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
				Courier	5/10/24	9:10

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☒ Yes ☐ No

# of Coolers: 1 Yogi

Cooler Temp(including CF): 0.4 ±0.0=0.4°c

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
5/8/24	1024	Soil	PWA-23	1x4oz Jar	ICE	13	X	X	X
	1026		PWA-24			14			
	1038		PWA-25			15			
	1040		PWA-26			16			
	1310		PBA-16			17			
	1314		PBA-17			18			
	1320		PBA-18			19			
	1324		PBA-19			20			
	1328		PBA-20			21			
	1340		PBA-21			22			
	1342		PBA-22			23			
	1348		PBA-23			24			

Analysis Request

Remarks: Bill to EOG Artesia

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5/9/24				Courier	5/10/24	9:10

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☒ Yes ☐ No

# of Coolers: 1 yogi

Cooler Temp(Including CF): 0.4 ± 0.0 = 0.4°c

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
5/8/24	1410	Soil	PBA-24	1x 4oz Jar	ICE	25	X	X	X
"	1414	"	PBA-25	"	"	26	"	"	"
"	1420	"	PBA-26	"	"	27	"	"	"
"	1424	"	PBA-27	"	"	28	"	"	"

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5/9/24				COURIER	5/10/24	9:10
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-4284-1

Login Number: 4284 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: McQuiston, Steven

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 5/29/2024 11:13:46 AM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-4824-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
5/29/2024 11:13:46 AM

Authorized for release by
Andy Freeman, Business Unit Manager
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(505)345-3975

Released to Imaging: 9/3/2025 1:20:26 PM

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-4824-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-4824-1
Project/Site: Roy SWD #3

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-4824-1

Job ID: 885-4824-1 Eurofins Albuquerque

Job Narrative
885-4824-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/21/2024 7:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-5504 recovered above the upper control limit for Di-n-octyl phthalate (Surr). The samples associated with this CCV were in range for the affected analytes; therefore, the data have been reported. The associated samples are impacted: PS-1 (885-4824-1), PS-2 (885-4824-2), PS-3 (885-4824-3), PS-4 (885-4824-4), PS-5 (885-4824-5), PS-6 (885-4824-6), PS-7 (885-4824-7), PS-8 (885-4824-8), PS-9 (885-4824-9), PS-10 (885-4824-10), PS-11 (885-4824-11), PS-12 (885-4824-12), PS-13 (885-4824-13), PS-14 (885-4824-14), PS-15 (885-4824-15), PS-16 (885-4824-16), PS-17 (885-4824-17), PS-18 (885-4824-18), PS-19 (885-4824-19), PS-20 (885-4824-20) and (CCV 885-5504/31)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_OF_28D_PREC: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: 11th and 12th injection being reported. SOP states CCV and CCB need to be analyzed every 10 injections.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-1

Date Collected: 05/16/24 08:50
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-1

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/21/24 09:20	05/22/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/21/24 09:20*	*05/22/24 18:08*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 09:20	05/22/24 18:08	1
Ethylbenzene	ND		0.048		mg/Kg		05/21/24 09:20	05/22/24 18:08	1
Toluene	ND		0.048		mg/Kg		05/21/24 09:20	05/22/24 18:08	1
Xylenes, Total	ND		0.097		mg/Kg		05/21/24 09:20	05/22/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*	*05/21/24 09:20*	*05/22/24 18:08*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		05/21/24 12:15	05/21/24 15:44	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/21/24 12:15	05/21/24 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*78*		*62 - 134*	*05/21/24 12:15*	*05/21/24 15:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70**	**F1**	60		mg/Kg		05/21/24 14:11	05/21/24 16:06	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-2

Date Collected: 05/16/24 08:54
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-2

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 09:20	05/22/24 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/21/24 09:20*	*05/22/24 19:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 09:20	05/22/24 19:19	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 09:20	05/22/24 19:19	1
Toluene	ND		0.050		mg/Kg		05/21/24 09:20	05/22/24 19:19	1
Xylenes, Total	ND		0.099		mg/Kg		05/21/24 09:20	05/22/24 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*48 - 145*	*05/21/24 09:20*	*05/22/24 19:19*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6		mg/Kg		05/21/24 12:15	05/21/24 15:55	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		05/21/24 12:15	05/21/24 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*05/21/24 12:15*	*05/21/24 15:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		60		mg/Kg		05/21/24 14:11	05/21/24 16:51	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-3

Date Collected: 05/16/24 09:02
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-3

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 09:20	05/22/24 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/21/24 09:20*	*05/22/24 20:29*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 09:20	05/22/24 20:29	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 09:20	05/22/24 20:29	1
Toluene	ND		0.050		mg/Kg		05/21/24 09:20	05/22/24 20:29	1
Xylenes, Total	ND		0.099		mg/Kg		05/21/24 09:20	05/22/24 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/21/24 09:20*	*05/22/24 20:29*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		05/21/24 12:15	05/21/24 16:06	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/21/24 12:15	05/21/24 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*05/21/24 12:15*	*05/21/24 16:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96**		60		mg/Kg		05/21/24 14:11	05/21/24 17:06	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-4

Date Collected: 05/16/24 09:04
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-4

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/21/24 09:20	05/22/24 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*35 - 166*	*05/21/24 09:20*	*05/22/24 20:53*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 09:20	05/22/24 20:53	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 09:20	05/22/24 20:53	1
Toluene	ND		0.049		mg/Kg		05/21/24 09:20	05/22/24 20:53	1
Xylenes, Total	ND		0.098		mg/Kg		05/21/24 09:20	05/22/24 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*48 - 145*	*05/21/24 09:20*	*05/22/24 20:53*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		05/21/24 12:15	05/21/24 16:17	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/21/24 12:15	05/21/24 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*05/21/24 12:15*	*05/21/24 16:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		60		mg/Kg		05/21/24 14:11	05/21/24 17:21	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-5

Date Collected: 05/16/24 09:08
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-5

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 09:20	05/22/24 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*35 - 166*	*05/21/24 09:20*	*05/22/24 21:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 09:20	05/22/24 21:16	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 09:20	05/22/24 21:16	1
Toluene	ND		0.050		mg/Kg		05/21/24 09:20	05/22/24 21:16	1
Xylenes, Total	ND		0.099		mg/Kg		05/21/24 09:20	05/22/24 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*48 - 145*	*05/21/24 09:20*	*05/22/24 21:16*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		05/21/24 12:15	05/21/24 16:27	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/21/24 12:15	05/21/24 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*05/21/24 12:15*	*05/21/24 16:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95**		60		mg/Kg		05/21/24 14:11	05/21/24 17:37	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-6

Date Collected: 05/16/24 09:12
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-6

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 09:20	05/22/24 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*35 - 166*	*05/21/24 09:20*	*05/22/24 21:40*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 09:20	05/22/24 21:40	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 09:20	05/22/24 21:40	1
Toluene	ND		0.050		mg/Kg		05/21/24 09:20	05/22/24 21:40	1
Xylenes, Total	ND		0.10		mg/Kg		05/21/24 09:20	05/22/24 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*	*05/21/24 09:20*	*05/22/24 21:40*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		05/21/24 12:15	05/21/24 16:38	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/21/24 12:15	05/21/24 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*05/21/24 12:15*	*05/21/24 16:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83		60		mg/Kg		05/21/24 14:11	05/21/24 18:22	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-7

Date Collected: 05/16/24 09:18
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-7

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 09:20	05/22/24 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/21/24 09:20*	*05/22/24 22:03*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 09:20	05/22/24 22:03	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 09:20	05/22/24 22:03	1
Toluene	ND		0.050		mg/Kg		05/21/24 09:20	05/22/24 22:03	1
Xylenes, Total	ND		0.099		mg/Kg		05/21/24 09:20	05/22/24 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/21/24 09:20*	*05/22/24 22:03*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		05/21/24 12:15	05/21/24 16:49	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/21/24 12:15	05/21/24 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*05/21/24 12:15*	*05/21/24 16:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82**		60		mg/Kg		05/21/24 14:11	05/21/24 18:37	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-8

Date Collected: 05/16/24 09:20
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-8
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/21/24 09:20	05/22/24 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*05/21/24 09:20*	*05/22/24 22:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 09:20	05/22/24 22:27	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 09:20	05/22/24 22:27	1
Toluene	ND		0.049		mg/Kg		05/21/24 09:20	05/22/24 22:27	1
Xylenes, Total	ND		0.097		mg/Kg		05/21/24 09:20	05/22/24 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*	*05/21/24 09:20*	*05/22/24 22:27*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		05/21/24 12:15	05/21/24 17:00	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/21/24 12:15	05/21/24 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*05/21/24 12:15*	*05/21/24 17:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		61		mg/Kg		05/21/24 14:11	05/21/24 18:52	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-9

Date Collected: 05/16/24 09:24
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-9

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/21/24 09:20	05/22/24 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*05/21/24 09:20*	*05/22/24 22:50*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 09:20	05/22/24 22:50	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 09:20	05/22/24 22:50	1
Toluene	ND		0.049		mg/Kg		05/21/24 09:20	05/22/24 22:50	1
Xylenes, Total	ND		0.097		mg/Kg		05/21/24 09:20	05/22/24 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*	*05/21/24 09:20*	*05/22/24 22:50*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/21/24 12:15	05/21/24 17:11	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/21/24 12:15	05/21/24 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*05/21/24 12:15*	*05/21/24 17:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		60		mg/Kg		05/21/24 14:11	05/21/24 19:38	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-10

Date Collected: 05/16/24 09:26
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-10

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/21/24 09:20	05/22/24 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/21/24 09:20*	*05/22/24 23:14*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 09:20	05/22/24 23:14	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 09:20	05/22/24 23:14	1
Toluene	ND		0.049		mg/Kg		05/21/24 09:20	05/22/24 23:14	1
Xylenes, Total	ND		0.098		mg/Kg		05/21/24 09:20	05/22/24 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/21/24 09:20*	*05/22/24 23:14*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		05/21/24 12:15	05/21/24 17:22	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/21/24 12:15	05/21/24 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*05/21/24 12:15*	*05/21/24 17:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		60		mg/Kg		05/21/24 14:11	05/21/24 19:53	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-11

Date Collected: 05/16/24 10:00
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-11

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/21/24 09:20	05/23/24 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/21/24 09:20*	*05/23/24 00:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 09:20	05/23/24 00:01	1
Ethylbenzene	ND		0.047		mg/Kg		05/21/24 09:20	05/23/24 00:01	1
Toluene	ND		0.047		mg/Kg		05/21/24 09:20	05/23/24 00:01	1
Xylenes, Total	ND		0.094		mg/Kg		05/21/24 09:20	05/23/24 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/21/24 09:20*	*05/23/24 00:01*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		05/21/24 12:15	05/21/24 17:33	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/21/24 12:15	05/21/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*68*		*62 - 134*	*05/21/24 12:15*	*05/21/24 17:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**350**		60		mg/Kg		05/21/24 14:11	05/21/24 20:08	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-12

Date Collected: 05/16/24 10:02
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-12

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/21/24 09:20	05/23/24 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*35 - 166*	*05/21/24 09:20*	*05/23/24 00:25*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 09:20	05/23/24 00:25	1
Ethylbenzene	ND		0.047		mg/Kg		05/21/24 09:20	05/23/24 00:25	1
Toluene	ND		0.047		mg/Kg		05/21/24 09:20	05/23/24 00:25	1
Xylenes, Total	ND		0.094		mg/Kg		05/21/24 09:20	05/23/24 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/21/24 09:20*	*05/23/24 00:25*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		05/21/24 12:15	05/21/24 17:44	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/21/24 12:15	05/21/24 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*05/21/24 12:15*	*05/21/24 17:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95**		60		mg/Kg		05/21/24 14:11	05/21/24 20:23	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-13

Date Collected: 05/16/24 10:04
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-13

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/21/24 09:20	05/23/24 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/21/24 09:20*	*05/23/24 00:48*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 09:20	05/23/24 00:48	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 09:20	05/23/24 00:48	1
Toluene	ND		0.049		mg/Kg		05/21/24 09:20	05/23/24 00:48	1
Xylenes, Total	ND		0.098		mg/Kg		05/21/24 09:20	05/23/24 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/21/24 09:20*	*05/23/24 00:48*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		05/21/24 12:15	05/21/24 17:55	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/21/24 12:15	05/21/24 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*05/21/24 12:15*	*05/21/24 17:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		60		mg/Kg		05/21/24 14:11	05/21/24 20:38	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-14

Date Collected: 05/16/24 10:10
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-14

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 09:20	05/23/24 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*05/21/24 09:20*	*05/23/24 01:12*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 09:20	05/23/24 01:12	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 09:20	05/23/24 01:12	1
Toluene	ND		0.050		mg/Kg		05/21/24 09:20	05/23/24 01:12	1
Xylenes, Total	ND		0.10		mg/Kg		05/21/24 09:20	05/23/24 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*05/21/24 09:20*	*05/23/24 01:12*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		05/21/24 12:15	05/21/24 18:06	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/21/24 12:15	05/21/24 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*05/21/24 12:15*	*05/21/24 18:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95**		60		mg/Kg		05/21/24 14:11	05/21/24 21:24	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-15

Date Collected: 05/16/24 10:16
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-15

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 09:20	05/23/24 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/21/24 09:20*	*05/23/24 01:35*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 09:20	05/23/24 01:35	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 09:20	05/23/24 01:35	1
Toluene	ND		0.050		mg/Kg		05/21/24 09:20	05/23/24 01:35	1
Xylenes, Total	ND		0.099		mg/Kg		05/21/24 09:20	05/23/24 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/21/24 09:20*	*05/23/24 01:35*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		05/21/24 12:15	05/21/24 18:17	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/21/24 12:15	05/21/24 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*05/21/24 12:15*	*05/21/24 18:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**450**		60		mg/Kg		05/21/24 14:11	05/21/24 21:39	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-16

Date Collected: 05/16/24 10:20
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-16

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 09:20	05/23/24 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/21/24 09:20*	*05/23/24 01:59*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 09:20	05/23/24 01:59	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 09:20	05/23/24 01:59	1
Toluene	ND		0.050		mg/Kg		05/21/24 09:20	05/23/24 01:59	1
Xylenes, Total	ND		0.099		mg/Kg		05/21/24 09:20	05/23/24 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/21/24 09:20*	*05/23/24 01:59*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		05/21/24 12:15	05/21/24 18:29	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/21/24 12:15	05/21/24 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*05/21/24 12:15*	*05/21/24 18:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		60		mg/Kg		05/21/24 14:11	05/21/24 21:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-17

Date Collected: 05/16/24 10:26
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-17

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 09:20	05/23/24 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*35 - 166*	*05/21/24 09:20*	*05/23/24 02:23*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 09:20	05/23/24 02:23	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 09:20	05/23/24 02:23	1
Toluene	ND		0.050		mg/Kg		05/21/24 09:20	05/23/24 02:23	1
Xylenes, Total	ND		0.10		mg/Kg		05/21/24 09:20	05/23/24 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/21/24 09:20*	*05/23/24 02:23*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		05/21/24 12:15	05/21/24 18:40	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/21/24 12:15	05/21/24 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*05/21/24 12:15*	*05/21/24 18:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**740**		60		mg/Kg		05/21/24 14:11	05/21/24 22:09	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-18

Date Collected: 05/16/24 10:30
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-18

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/21/24 09:20	05/23/24 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/21/24 09:20*	*05/23/24 02:46*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 09:20	05/23/24 02:46	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 09:20	05/23/24 02:46	1
Toluene	ND		0.049		mg/Kg		05/21/24 09:20	05/23/24 02:46	1
Xylenes, Total	ND		0.097		mg/Kg		05/21/24 09:20	05/23/24 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/21/24 09:20*	*05/23/24 02:46*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		05/21/24 12:15	05/21/24 18:51	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/21/24 12:15	05/21/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*05/21/24 12:15*	*05/21/24 18:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		60		mg/Kg		05/21/24 14:11	05/21/24 22:25	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-19

Date Collected: 05/16/24 10:34
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-19

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/21/24 09:20	05/23/24 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/21/24 09:20*	*05/23/24 03:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 09:20	05/23/24 03:10	1
Ethylbenzene	ND		0.048		mg/Kg		05/21/24 09:20	05/23/24 03:10	1
Toluene	ND		0.048		mg/Kg		05/21/24 09:20	05/23/24 03:10	1
Xylenes, Total	ND		0.096		mg/Kg		05/21/24 09:20	05/23/24 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/21/24 09:20*	*05/23/24 03:10*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		05/21/24 12:15	05/21/24 19:03	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/21/24 12:15	05/21/24 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*05/21/24 12:15*	*05/21/24 19:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		60		mg/Kg		05/21/24 14:11	05/21/24 22:40	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-20

Date Collected: 05/16/24 10:38
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-20

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/21/24 09:20	05/23/24 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*35 - 166*	*05/21/24 09:20*	*05/23/24 03:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 09:20	05/23/24 03:33	1
Ethylbenzene	ND		0.048		mg/Kg		05/21/24 09:20	05/23/24 03:33	1
Toluene	ND		0.048		mg/Kg		05/21/24 09:20	05/23/24 03:33	1
Xylenes, Total	ND		0.096		mg/Kg		05/21/24 09:20	05/23/24 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/21/24 09:20*	*05/23/24 03:33*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8		mg/Kg		05/21/24 12:15	05/21/24 19:14	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		05/21/24 12:15	05/21/24 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*05/21/24 12:15*	*05/21/24 19:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69**		60		mg/Kg		05/21/24 14:11	05/21/24 22:55	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-21

Date Collected: 05/16/24 13:10
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-21

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/21/24 11:04	05/23/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/21/24 11:04*	*05/23/24 20:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 11:04	05/23/24 20:01	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 11:04	05/23/24 20:01	1
Toluene	ND		0.049		mg/Kg		05/21/24 11:04	05/23/24 20:01	1
Xylenes, Total	ND		0.098		mg/Kg		05/21/24 11:04	05/23/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/21/24 11:04*	*05/23/24 20:01*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8		mg/Kg		05/21/24 14:34	05/22/24 13:09	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		05/21/24 14:34	05/22/24 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*05/21/24 14:34*	*05/22/24 13:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/22/24 06:56	05/22/24 08:33	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-22

Date Collected: 05/16/24 13:14
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-22

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/21/24 11:04	05/23/24 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/21/24 11:04*	*05/23/24 21:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 11:04	05/23/24 21:11	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 11:04	05/23/24 21:11	1
Toluene	ND		0.049		mg/Kg		05/21/24 11:04	05/23/24 21:11	1
Xylenes, Total	ND		0.099		mg/Kg		05/21/24 11:04	05/23/24 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/21/24 11:04*	*05/23/24 21:11*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		05/21/24 14:34	05/22/24 13:20	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/21/24 14:34	05/22/24 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*05/21/24 14:34*	*05/22/24 13:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		60		mg/Kg		05/22/24 06:56	05/22/24 09:10	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-23

Date Collected: 05/16/24 13:20
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-23

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/21/24 11:04	05/23/24 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/21/24 11:04*	*05/23/24 22:45*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 11:04	05/23/24 22:45	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 11:04	05/23/24 22:45	1
Toluene	ND		0.049		mg/Kg		05/21/24 11:04	05/23/24 22:45	1
Xylenes, Total	ND		0.098		mg/Kg		05/21/24 11:04	05/23/24 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/21/24 11:04*	*05/23/24 22:45*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**24**		9.4		mg/Kg		05/21/24 14:34	05/24/24 10:38	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/21/24 14:34	05/24/24 10:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*67*		*62 - 134*	*05/21/24 14:34*	*05/24/24 10:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/22/24 06:56	05/22/24 09:22	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-24

Date Collected: 05/16/24 13:26
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-24

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/21/24 11:04	05/23/24 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/21/24 11:04*	*05/23/24 23:09*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 11:04	05/23/24 23:09	1
Ethylbenzene	ND		0.048		mg/Kg		05/21/24 11:04	05/23/24 23:09	1
Toluene	ND		0.048		mg/Kg		05/21/24 11:04	05/23/24 23:09	1
Xylenes, Total	ND		0.096		mg/Kg		05/21/24 11:04	05/23/24 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/21/24 11:04*	*05/23/24 23:09*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		05/24/24 14:07	05/28/24 13:59	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		05/24/24 14:07	05/28/24 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*62 - 134*	*05/24/24 14:07*	*05/28/24 13:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/22/24 06:56	05/22/24 09:35	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-25

Date Collected: 05/16/24 13:30
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-25

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/21/24 11:04	05/23/24 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*05/21/24 11:04*	*05/23/24 23:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 11:04	05/23/24 23:33	1
Ethylbenzene	ND		0.047		mg/Kg		05/21/24 11:04	05/23/24 23:33	1
Toluene	ND		0.047		mg/Kg		05/21/24 11:04	05/23/24 23:33	1
Xylenes, Total	ND		0.095		mg/Kg		05/21/24 11:04	05/23/24 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*	*05/21/24 11:04*	*05/23/24 23:33*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		05/21/24 14:34	05/22/24 13:52	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/21/24 14:34	05/22/24 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*66*		*62 - 134*	*05/21/24 14:34*	*05/22/24 13:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59		mg/Kg		05/22/24 06:56	05/22/24 09:47	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-26

Date Collected: 05/16/24 13:32
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-26

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/21/24 11:04	05/23/24 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/21/24 11:04*	*05/23/24 23:56*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 11:04	05/23/24 23:56	1
Ethylbenzene	ND		0.048		mg/Kg		05/21/24 11:04	05/23/24 23:56	1
Toluene	ND		0.048		mg/Kg		05/21/24 11:04	05/23/24 23:56	1
Xylenes, Total	ND		0.097		mg/Kg		05/21/24 11:04	05/23/24 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/21/24 11:04*	*05/23/24 23:56*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		05/24/24 14:07	05/28/24 14:12	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/24/24 14:07	05/28/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*05/24/24 14:07*	*05/28/24 14:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		05/22/24 06:56	05/22/24 09:59	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Job ID: 885-4824-1
Project/Site: Roy SWD #3

Client Sample ID: PS-27
Lab Sample ID: 885-4824-27
Date Collected: 05/16/24 13:36
Matrix: Solid
Date Received: 05/21/24 07:40

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 11:04	05/24/24 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/21/24 11:04*	*05/24/24 00:20*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 11:04	05/24/24 00:20	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 11:04	05/24/24 00:20	1
Toluene	ND		0.050		mg/Kg		05/21/24 11:04	05/24/24 00:20	1
Xylenes, Total	ND		0.099		mg/Kg		05/21/24 11:04	05/24/24 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/21/24 11:04*	*05/24/24 00:20*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		05/24/24 14:07	05/28/24 14:24	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/24/24 14:07	05/28/24 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*05/24/24 14:07*	*05/28/24 14:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/22/24 06:56	05/22/24 10:12	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Job ID: 885-4824-1
Project/Site: Roy SWD #3

Client Sample ID: PS-28
Lab Sample ID: 885-4824-28
Date Collected: 05/16/24 13:40
Matrix: Solid
Date Received: 05/21/24 07:40

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/21/24 11:04	05/24/24 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/21/24 11:04*	*05/24/24 00:43*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 11:04	05/24/24 00:43	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 11:04	05/24/24 00:43	1
Toluene	ND		0.049		mg/Kg		05/21/24 11:04	05/24/24 00:43	1
Xylenes, Total	ND		0.099		mg/Kg		05/21/24 11:04	05/24/24 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/21/24 11:04*	*05/24/24 00:43*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		05/21/24 14:34	05/22/24 14:24	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/21/24 14:34	05/22/24 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*05/21/24 14:34*	*05/22/24 14:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		59		mg/Kg		05/22/24 06:56	05/22/24 10:24	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-29

Date Collected: 05/16/24 13:42
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-29

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/21/24 11:04	05/24/24 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/21/24 11:04*	*05/24/24 01:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 11:04	05/24/24 01:06	1
Ethylbenzene	ND		0.048		mg/Kg		05/21/24 11:04	05/24/24 01:06	1
Toluene	ND		0.048		mg/Kg		05/21/24 11:04	05/24/24 01:06	1
Xylenes, Total	ND		0.096		mg/Kg		05/21/24 11:04	05/24/24 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/21/24 11:04*	*05/24/24 01:06*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		05/24/24 14:07	05/28/24 14:37	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/24/24 14:07	05/28/24 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*05/24/24 14:07*	*05/28/24 14:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/22/24 06:56	05/22/24 11:01	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-30

Date Collected: 05/16/24 13:48
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-30

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 11:04	05/24/24 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/21/24 11:04*	*05/24/24 01:30*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 11:04	05/24/24 01:30	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 11:04	05/24/24 01:30	1
Toluene	ND		0.050		mg/Kg		05/21/24 11:04	05/24/24 01:30	1
Xylenes, Total	ND		0.10		mg/Kg		05/21/24 11:04	05/24/24 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/21/24 11:04*	*05/24/24 01:30*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		05/21/24 14:34	05/24/24 12:38	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/21/24 14:34	05/24/24 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*64*		*62 - 134*	*05/21/24 14:34*	*05/24/24 12:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/22/24 06:56	05/22/24 11:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-31

Date Collected: 05/16/24 14:00
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-31

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/21/24 11:04	05/24/24 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/21/24 11:04*	*05/24/24 02:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 11:04	05/24/24 02:16	1
Ethylbenzene	ND		0.048		mg/Kg		05/21/24 11:04	05/24/24 02:16	1
Toluene	ND		0.048		mg/Kg		05/21/24 11:04	05/24/24 02:16	1
Xylenes, Total	ND		0.097		mg/Kg		05/21/24 11:04	05/24/24 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/21/24 11:04*	*05/24/24 02:16*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		05/21/24 14:34	05/22/24 14:57	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/21/24 14:34	05/22/24 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*71*		*62 - 134*	*05/21/24 14:34*	*05/22/24 14:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/22/24 06:56	05/22/24 11:50	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-32

Date Collected: 05/16/24 14:10
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-32

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/21/24 11:04	05/24/24 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*35 - 166*	*05/21/24 11:04*	*05/24/24 02:40*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 11:04	05/24/24 02:40	1
Ethylbenzene	ND		0.047		mg/Kg		05/21/24 11:04	05/24/24 02:40	1
Toluene	ND		0.047		mg/Kg		05/21/24 11:04	05/24/24 02:40	1
Xylenes, Total	ND		0.095		mg/Kg		05/21/24 11:04	05/24/24 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/21/24 11:04*	*05/24/24 02:40*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		05/24/24 14:07	05/28/24 14:50	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/24/24 14:07	05/28/24 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*05/24/24 14:07*	*05/28/24 14:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61		mg/Kg		05/22/24 06:56	05/22/24 12:03	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Job ID: 885-4824-1
Project/Site: Roy SWD #3

Client Sample ID: PS-33
Lab Sample ID: 885-4824-33
Date Collected: 05/16/24 14:14
Matrix: Solid
Date Received: 05/21/24 07:40

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/21/24 11:04	05/24/24 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/21/24 11:04*	*05/24/24 03:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 11:04	05/24/24 03:04	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 11:04	05/24/24 03:04	1
Toluene	ND		0.049		mg/Kg		05/21/24 11:04	05/24/24 03:04	1
Xylenes, Total	ND		0.099		mg/Kg		05/21/24 11:04	05/24/24 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/21/24 11:04*	*05/24/24 03:04*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		05/21/24 14:34	05/22/24 15:18	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/21/24 14:34	05/22/24 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*76*		*62 - 134*	*05/21/24 14:34*	*05/22/24 15:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59		mg/Kg		05/22/24 06:56	05/22/24 12:15	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-34

Date Collected: 05/16/24 14:16
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-34

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/21/24 11:04	05/24/24 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*35 - 166*	*05/21/24 11:04*	*05/24/24 03:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 11:04	05/24/24 03:27	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 11:04	05/24/24 03:27	1
Toluene	ND		0.049		mg/Kg		05/21/24 11:04	05/24/24 03:27	1
Xylenes, Total	ND		0.097		mg/Kg		05/21/24 11:04	05/24/24 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/21/24 11:04*	*05/24/24 03:27*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		05/21/24 14:34	05/22/24 15:29	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/21/24 14:34	05/22/24 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*77*		*62 - 134*	*05/21/24 14:34*	*05/22/24 15:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/22/24 06:56	05/22/24 12:28	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-35

Date Collected: 05/16/24 14:20
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-35

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/21/24 11:04	05/24/24 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/21/24 11:04*	*05/24/24 03:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		05/21/24 11:04	05/24/24 03:51	1
Ethylbenzene	ND		0.047		mg/Kg		05/21/24 11:04	05/24/24 03:51	1
Toluene	ND		0.047		mg/Kg		05/21/24 11:04	05/24/24 03:51	1
Xylenes, Total	ND		0.094		mg/Kg		05/21/24 11:04	05/24/24 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/21/24 11:04*	*05/24/24 03:51*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8		mg/Kg		05/21/24 14:34	05/22/24 15:40	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		05/21/24 14:34	05/22/24 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*78*		*62 - 134*	*05/21/24 14:34*	*05/22/24 15:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64**		60		mg/Kg		05/22/24 06:56	05/22/24 12:40	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-36

Date Collected: 05/16/24 14:22
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-36

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/21/24 11:04	05/24/24 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/21/24 11:04*	*05/24/24 04:14*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 11:04	05/24/24 04:14	1
Ethylbenzene	ND		0.049		mg/Kg		05/21/24 11:04	05/24/24 04:14	1
Toluene	ND		0.049		mg/Kg		05/21/24 11:04	05/24/24 04:14	1
Xylenes, Total	ND		0.097		mg/Kg		05/21/24 11:04	05/24/24 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/21/24 11:04*	*05/24/24 04:14*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		05/21/24 14:34	05/22/24 15:51	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/21/24 14:34	05/22/24 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*05/21/24 14:34*	*05/22/24 15:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68**		60		mg/Kg		05/22/24 06:56	05/22/24 12:52	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-37

Date Collected: 05/16/24 14:24
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-37

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/21/24 11:04	05/24/24 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*05/21/24 11:04*	*05/24/24 04:38*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 11:04	05/24/24 04:38	1
Ethylbenzene	ND		0.048		mg/Kg		05/21/24 11:04	05/24/24 04:38	1
Toluene	ND		0.048		mg/Kg		05/21/24 11:04	05/24/24 04:38	1
Xylenes, Total	ND		0.097		mg/Kg		05/21/24 11:04	05/24/24 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/21/24 11:04*	*05/24/24 04:38*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		05/21/24 14:34	05/22/24 16:02	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/21/24 14:34	05/22/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*05/21/24 14:34*	*05/22/24 16:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		60		mg/Kg		05/22/24 06:56	05/22/24 13:29	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-38

Date Collected: 05/16/24 14:26
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-38

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/21/24 11:04	05/24/24 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*05/21/24 11:04*	*05/24/24 05:02*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/21/24 11:04	05/24/24 05:02	1
Ethylbenzene	ND		0.048		mg/Kg		05/21/24 11:04	05/24/24 05:02	1
Toluene	ND		0.048		mg/Kg		05/21/24 11:04	05/24/24 05:02	1
Xylenes, Total	ND		0.097		mg/Kg		05/21/24 11:04	05/24/24 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/21/24 11:04*	*05/24/24 05:02*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		05/21/24 14:34	05/22/24 16:13	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/21/24 14:34	05/22/24 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*05/21/24 14:34*	*05/22/24 16:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		60		mg/Kg		05/22/24 06:56	05/22/24 13:42	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-39

Date Collected: 05/16/24 14:30
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-39

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 11:04	05/24/24 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*35 - 166*	*05/21/24 11:04*	*05/24/24 05:25*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 11:04	05/24/24 05:25	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 11:04	05/24/24 05:25	1
Toluene	ND		0.050		mg/Kg		05/21/24 11:04	05/24/24 05:25	1
Xylenes, Total	ND		0.10		mg/Kg		05/21/24 11:04	05/24/24 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/21/24 11:04*	*05/24/24 05:25*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		05/21/24 14:34	05/22/24 16:24	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/21/24 14:34	05/22/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*71*		*62 - 134*	*05/21/24 14:34*	*05/22/24 16:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/22/24 06:56	05/22/24 13:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-40

Date Collected: 05/16/24 14:32
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-40

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/21/24 11:04	05/24/24 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*05/21/24 11:04*	*05/24/24 05:48*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		05/21/24 11:04	05/24/24 05:48	1
Ethylbenzene	ND		0.047		mg/Kg		05/21/24 11:04	05/24/24 05:48	1
Toluene	ND		0.047		mg/Kg		05/21/24 11:04	05/24/24 05:48	1
Xylenes, Total	ND		0.094		mg/Kg		05/21/24 11:04	05/24/24 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/21/24 11:04*	*05/24/24 05:48*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		05/21/24 14:34	05/22/24 16:35	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/21/24 14:34	05/22/24 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*77*		*62 - 134*	*05/21/24 14:34*	*05/22/24 16:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		60		mg/Kg		05/22/24 06:56	05/22/24 14:06	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-5336/1-A
Matrix: Solid
Analysis Batch: 5538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5336

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 09:20	05/22/24 15:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*35 - 166*	*05/21/24 09:20*	*05/22/24 15:02*	*1*

Lab Sample ID: LCS 885-5336/2-A
Matrix: Solid
Analysis Batch: 5538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5336

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	24.3		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*193*	*S1+*	*35 - 166*

Lab Sample ID: 885-4824-1 MS
Matrix: Solid
Analysis Batch: 5538

Client Sample ID: PS-1
Prep Type: Total/NA
Prep Batch: 5336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.5	28.4		mg/Kg		116	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*217*	*S1+*	*35 - 166*

Lab Sample ID: 885-4824-1 MSD
Matrix: Solid
Analysis Batch: 5538

Client Sample ID: PS-1
Prep Type: Total/NA
Prep Batch: 5336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.2	28.3		mg/Kg		117	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*221*	*S1+*	*35 - 166*

Lab Sample ID: MB 885-5348/1-A
Matrix: Solid
Analysis Batch: 5619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5348

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/21/24 11:04	05/23/24 14:33	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 885-5348/1-A
Matrix: Solid
Analysis Batch: 5619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5348

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		35 - 166	05/21/24 11:04	05/23/24 14:33	1

Lab Sample ID: LCS 885-5348/2-A
Matrix: Solid
Analysis Batch: 5619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5348

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	24.9		mg/Kg		99	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	194	S1+	35 - 166

Lab Sample ID: 885-4824-21 MS
Matrix: Solid
Analysis Batch: 5619

Client Sample ID: PS-21
Prep Type: Total/NA
Prep Batch: 5348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.7	26.6		mg/Kg		108	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	213	S1+	35 - 166

Lab Sample ID: 885-4824-21 MSD
Matrix: Solid
Analysis Batch: 5619

Client Sample ID: PS-21
Prep Type: Total/NA
Prep Batch: 5348

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.6	26.2		mg/Kg		106	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	211	S1+	35 - 166

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-5336/1-A
Matrix: Solid
Analysis Batch: 5539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5336

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 09:20	05/22/24 15:02	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 09:20	05/22/24 15:02	1
Toluene	ND		0.050		mg/Kg		05/21/24 09:20	05/22/24 15:02	1
Xylenes, Total	ND		0.10		mg/Kg		05/21/24 09:20	05/22/24 15:02	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-5336/1-A
Matrix: Solid
Analysis Batch: 5539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5336

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		48 - 145	05/21/24 09:20	05/22/24 15:02	1

Lab Sample ID: LCS 885-5336/3-A
Matrix: Solid
Analysis Batch: 5539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.885		mg/Kg		89	70 - 130
Ethylbenzene	1.00	0.852		mg/Kg		85	70 - 130
Toluene	1.00	0.845		mg/Kg		84	70 - 130
m,p-Xylene	2.00	1.72		mg/Kg		86	70 - 130
o-Xylene	1.00	0.843		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		48 - 145

Lab Sample ID: 885-4824-2 MS
Matrix: Solid
Analysis Batch: 5539

Client Sample ID: PS-2
Prep Type: Total/NA
Prep Batch: 5336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.971	0.983		mg/Kg		101	70 - 130
Ethylbenzene	ND		0.971	0.986		mg/Kg		102	70 - 130
Toluene	ND		0.971	0.963		mg/Kg		98	70 - 130
m,p-Xylene	ND		1.94	2.01		mg/Kg		102	70 - 130
o-Xylene	ND		0.971	0.986		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		48 - 145

Lab Sample ID: 885-4824-2 MSD
Matrix: Solid
Analysis Batch: 5539

Client Sample ID: PS-2
Prep Type: Total/NA
Prep Batch: 5336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.976	1.06		mg/Kg		109	70 - 130	7	20
Ethylbenzene	ND		0.976	1.05		mg/Kg		107	70 - 130	6	20
Toluene	ND		0.976	1.03		mg/Kg		104	70 - 130	7	20
m,p-Xylene	ND		1.95	2.15		mg/Kg		109	70 - 130	7	20
o-Xylene	ND		0.976	1.06		mg/Kg		109	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		48 - 145

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-5348/1-A
Matrix: Solid
Analysis Batch: 5620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5348

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/21/24 11:04	05/23/24 14:33	1
Ethylbenzene	ND		0.050		mg/Kg		05/21/24 11:04	05/23/24 14:33	1
Toluene	ND		0.050		mg/Kg		05/21/24 11:04	05/23/24 14:33	1
Xylenes, Total	ND		0.10		mg/Kg		05/21/24 11:04	05/23/24 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*05/21/24 11:04*	*05/23/24 14:33*	*1*

Lab Sample ID: LCS 885-5348/3-A
Matrix: Solid
Analysis Batch: 5620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5348

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.917		mg/Kg		92	70 - 130		
Ethylbenzene			1.00	0.871		mg/Kg		87	70 - 130		
Toluene			1.00	0.870		mg/Kg		87	70 - 130		
m,p-Xylene			2.00	1.78		mg/Kg		89	70 - 130		
o-Xylene			1.00	0.871		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*

Lab Sample ID: 885-4824-22 MS
Matrix: Solid
Analysis Batch: 5620

Client Sample ID: PS-22
Prep Type: Total/NA
Prep Batch: 5348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.990	1.02		mg/Kg		103	70 - 130		
Ethylbenzene	ND		0.990	1.02		mg/Kg		102	70 - 130		
Toluene	ND		0.990	0.990		mg/Kg		99	70 - 130		
m,p-Xylene	ND		1.98	2.04		mg/Kg		102	70 - 130		
o-Xylene	ND		0.990	0.999		mg/Kg		101	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*

Lab Sample ID: 885-4824-22 MSD
Matrix: Solid
Analysis Batch: 5620

Client Sample ID: PS-22
Prep Type: Total/NA
Prep Batch: 5348

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.989	0.999		mg/Kg		101	70 - 130	2	20
Ethylbenzene	ND		0.989	1.00		mg/Kg		100	70 - 130	2	20
Toluene	ND		0.989	0.979		mg/Kg		98	70 - 130	1	20
m,p-Xylene	ND		1.98	2.02		mg/Kg		101	70 - 130	1	20
o-Xylene	ND		0.989	0.993		mg/Kg		100	70 - 130	1	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-4824-22 MSD
Matrix: Solid
Analysis Batch: 5620

Client Sample ID: PS-22
Prep Type: Total/NA
Prep Batch: 5348

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-5363/1-A
Matrix: Solid
Analysis Batch: 5448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5363

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/21/24 12:15	05/22/24 10:29	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/21/24 12:15	05/22/24 10:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*05/21/24 12:15*	*05/22/24 10:29*	*1*

Lab Sample ID: LCS 885-5363/2-A
Matrix: Solid
Analysis Batch: 5504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5363

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	46.6		mg/Kg		93	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*

Lab Sample ID: 885-4824-20 MS
Matrix: Solid
Analysis Batch: 5504

Client Sample ID: PS-20
Prep Type: Total/NA
Prep Batch: 5363

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		48.4	48.9		mg/Kg		101	44 - 136		

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*115*		*62 - 134*

Lab Sample ID: 885-4824-20 MSD
Matrix: Solid
Analysis Batch: 5504

Client Sample ID: PS-20
Prep Type: Total/NA
Prep Batch: 5363

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		44.8	44.4		mg/Kg		99	44 - 136	10	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-5379/1-A
Matrix: Solid
Analysis Batch: 5448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5379

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/21/24 14:34	05/22/24 12:48	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/21/24 14:34	05/22/24 12:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*05/21/24 14:34*	*05/22/24 12:48*	*1*

Lab Sample ID: LCS 885-5379/2-A
Matrix: Solid
Analysis Batch: 5448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5379

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	51.9		mg/Kg		104	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*125*		*62 - 134*

Lab Sample ID: 885-4824-40 MS
Matrix: Solid
Analysis Batch: 5448

Client Sample ID: PS-40
Prep Type: Total/NA
Prep Batch: 5379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		45.6	36.0		mg/Kg		79	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*

Lab Sample ID: 885-4824-40 MSD
Matrix: Solid
Analysis Batch: 5448

Client Sample ID: PS-40
Prep Type: Total/NA
Prep Batch: 5379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		45.4	29.8		mg/Kg		66	44 - 136	19	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*62*		*62 - 134*

Lab Sample ID: MB 885-5641/1-A
Matrix: Solid
Analysis Batch: 5719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5641

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/24/24 14:07	05/28/24 13:33	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/24/24 14:07	05/28/24 13:33	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-5641/1-A
Matrix: Solid
Analysis Batch: 5719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5641

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*05/24/24 14:07*	*05/28/24 13:33*	*1*

Lab Sample ID: LCS 885-5641/2-A
Matrix: Solid
Analysis Batch: 5719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5641

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	43.1		mg/Kg		86	60 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-5377/1-A
Matrix: Solid
Analysis Batch: 5406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5377

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		05/21/24 14:11	05/21/24 15:20	1

Lab Sample ID: LCS 885-5377/2-A
Matrix: Solid
Analysis Batch: 5406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	28.4		mg/Kg		95	90 - 110

Lab Sample ID: 885-4824-1 MS
Matrix: Solid
Analysis Batch: 5406

Client Sample ID: PS-1
Prep Type: Total/NA
Prep Batch: 5377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	70	F1	29.7	111		mg/Kg		139	50 - 150

Lab Sample ID: 885-4824-1 MSD
Matrix: Solid
Analysis Batch: 5406

Client Sample ID: PS-1
Prep Type: Total/NA
Prep Batch: 5377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	70	F1	30.2	131	F1	mg/Kg		205	50 - 150	17	20

Lab Sample ID: 885-4824-8 MS
Matrix: Solid
Analysis Batch: 5406

Client Sample ID: PS-8
Prep Type: Total/NA
Prep Batch: 5377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	130		29.9	166	4	mg/Kg		122	50 - 150

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-4824-8 MSD
Matrix: Solid
Analysis Batch: 5406

Client Sample ID: PS-8
Prep Type: Total/NA
Prep Batch: 5377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	130		30.0	148	4	mg/Kg		61	50 - 150	11	20

Lab Sample ID: MB 885-5400/1-A
Matrix: Solid
Analysis Batch: 5493

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5400

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		05/22/24 06:56	05/22/24 07:49	1

Lab Sample ID: LCS 885-5400/2-A
Matrix: Solid
Analysis Batch: 5493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5400

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	27.7		mg/Kg		92	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

GC VOA

Prep Batch: 5336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-1	PS-1	Total/NA	Solid	5030C	
885-4824-2	PS-2	Total/NA	Solid	5030C	
885-4824-3	PS-3	Total/NA	Solid	5030C	
885-4824-4	PS-4	Total/NA	Solid	5030C	
885-4824-5	PS-5	Total/NA	Solid	5030C	
885-4824-6	PS-6	Total/NA	Solid	5030C	
885-4824-7	PS-7	Total/NA	Solid	5030C	
885-4824-8	PS-8	Total/NA	Solid	5030C	
885-4824-9	PS-9	Total/NA	Solid	5030C	
885-4824-10	PS-10	Total/NA	Solid	5030C	
885-4824-11	PS-11	Total/NA	Solid	5030C	
885-4824-12	PS-12	Total/NA	Solid	5030C	
885-4824-13	PS-13	Total/NA	Solid	5030C	
885-4824-14	PS-14	Total/NA	Solid	5030C	
885-4824-15	PS-15	Total/NA	Solid	5030C	
885-4824-16	PS-16	Total/NA	Solid	5030C	
885-4824-17	PS-17	Total/NA	Solid	5030C	
885-4824-18	PS-18	Total/NA	Solid	5030C	
885-4824-19	PS-19	Total/NA	Solid	5030C	
885-4824-20	PS-20	Total/NA	Solid	5030C	
MB 885-5336/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-5336/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-5336/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-4824-1 MS	PS-1	Total/NA	Solid	5030C	
885-4824-1 MSD	PS-1	Total/NA	Solid	5030C	
885-4824-2 MS	PS-2	Total/NA	Solid	5030C	
885-4824-2 MSD	PS-2	Total/NA	Solid	5030C	

Prep Batch: 5348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-21	PS-21	Total/NA	Solid	5030C	
885-4824-22	PS-22	Total/NA	Solid	5030C	
885-4824-23	PS-23	Total/NA	Solid	5030C	
885-4824-24	PS-24	Total/NA	Solid	5030C	
885-4824-25	PS-25	Total/NA	Solid	5030C	
885-4824-26	PS-26	Total/NA	Solid	5030C	
885-4824-27	PS-27	Total/NA	Solid	5030C	
885-4824-28	PS-28	Total/NA	Solid	5030C	
885-4824-29	PS-29	Total/NA	Solid	5030C	
885-4824-30	PS-30	Total/NA	Solid	5030C	
885-4824-31	PS-31	Total/NA	Solid	5030C	
885-4824-32	PS-32	Total/NA	Solid	5030C	
885-4824-33	PS-33	Total/NA	Solid	5030C	
885-4824-34	PS-34	Total/NA	Solid	5030C	
885-4824-35	PS-35	Total/NA	Solid	5030C	
885-4824-36	PS-36	Total/NA	Solid	5030C	
885-4824-37	PS-37	Total/NA	Solid	5030C	
885-4824-38	PS-38	Total/NA	Solid	5030C	
885-4824-39	PS-39	Total/NA	Solid	5030C	
885-4824-40	PS-40	Total/NA	Solid	5030C	
MB 885-5348/1-A	Method Blank	Total/NA	Solid	5030C	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

GC VOA (Continued)

Prep Batch: 5348 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-5348/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-5348/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-4824-21 MS	PS-21	Total/NA	Solid	5030C	
885-4824-21 MSD	PS-21	Total/NA	Solid	5030C	
885-4824-22 MS	PS-22	Total/NA	Solid	5030C	
885-4824-22 MSD	PS-22	Total/NA	Solid	5030C	

Analysis Batch: 5538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-1	PS-1	Total/NA	Solid	8015D	5336
885-4824-2	PS-2	Total/NA	Solid	8015D	5336
885-4824-3	PS-3	Total/NA	Solid	8015D	5336
885-4824-4	PS-4	Total/NA	Solid	8015D	5336
885-4824-5	PS-5	Total/NA	Solid	8015D	5336
885-4824-6	PS-6	Total/NA	Solid	8015D	5336
885-4824-7	PS-7	Total/NA	Solid	8015D	5336
885-4824-8	PS-8	Total/NA	Solid	8015D	5336
885-4824-9	PS-9	Total/NA	Solid	8015D	5336
885-4824-10	PS-10	Total/NA	Solid	8015D	5336
885-4824-11	PS-11	Total/NA	Solid	8015D	5336
885-4824-12	PS-12	Total/NA	Solid	8015D	5336
885-4824-13	PS-13	Total/NA	Solid	8015D	5336
885-4824-14	PS-14	Total/NA	Solid	8015D	5336
885-4824-15	PS-15	Total/NA	Solid	8015D	5336
885-4824-16	PS-16	Total/NA	Solid	8015D	5336
885-4824-17	PS-17	Total/NA	Solid	8015D	5336
885-4824-18	PS-18	Total/NA	Solid	8015D	5336
885-4824-19	PS-19	Total/NA	Solid	8015D	5336
885-4824-20	PS-20	Total/NA	Solid	8015D	5336
MB 885-5336/1-A	Method Blank	Total/NA	Solid	8015D	5336
LCS 885-5336/2-A	Lab Control Sample	Total/NA	Solid	8015D	5336
885-4824-1 MS	PS-1	Total/NA	Solid	8015D	5336
885-4824-1 MSD	PS-1	Total/NA	Solid	8015D	5336

Analysis Batch: 5539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-1	PS-1	Total/NA	Solid	8021B	5336
885-4824-2	PS-2	Total/NA	Solid	8021B	5336
885-4824-3	PS-3	Total/NA	Solid	8021B	5336
885-4824-4	PS-4	Total/NA	Solid	8021B	5336
885-4824-5	PS-5	Total/NA	Solid	8021B	5336
885-4824-6	PS-6	Total/NA	Solid	8021B	5336
885-4824-7	PS-7	Total/NA	Solid	8021B	5336
885-4824-8	PS-8	Total/NA	Solid	8021B	5336
885-4824-9	PS-9	Total/NA	Solid	8021B	5336
885-4824-10	PS-10	Total/NA	Solid	8021B	5336
885-4824-11	PS-11	Total/NA	Solid	8021B	5336
885-4824-12	PS-12	Total/NA	Solid	8021B	5336
885-4824-13	PS-13	Total/NA	Solid	8021B	5336
885-4824-14	PS-14	Total/NA	Solid	8021B	5336
885-4824-15	PS-15	Total/NA	Solid	8021B	5336

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

GC VOA (Continued)

Analysis Batch: 5539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-16	PS-16	Total/NA	Solid	8021B	5336
885-4824-17	PS-17	Total/NA	Solid	8021B	5336
885-4824-18	PS-18	Total/NA	Solid	8021B	5336
885-4824-19	PS-19	Total/NA	Solid	8021B	5336
885-4824-20	PS-20	Total/NA	Solid	8021B	5336
MB 885-5336/1-A	Method Blank	Total/NA	Solid	8021B	5336
LCS 885-5336/3-A	Lab Control Sample	Total/NA	Solid	8021B	5336
885-4824-2 MS	PS-2	Total/NA	Solid	8021B	5336
885-4824-2 MSD	PS-2	Total/NA	Solid	8021B	5336

Analysis Batch: 5619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-21	PS-21	Total/NA	Solid	8015D	5348
885-4824-22	PS-22	Total/NA	Solid	8015D	5348
885-4824-23	PS-23	Total/NA	Solid	8015D	5348
885-4824-24	PS-24	Total/NA	Solid	8015D	5348
885-4824-25	PS-25	Total/NA	Solid	8015D	5348
885-4824-26	PS-26	Total/NA	Solid	8015D	5348
885-4824-27	PS-27	Total/NA	Solid	8015D	5348
885-4824-28	PS-28	Total/NA	Solid	8015D	5348
885-4824-29	PS-29	Total/NA	Solid	8015D	5348
885-4824-30	PS-30	Total/NA	Solid	8015D	5348
885-4824-31	PS-31	Total/NA	Solid	8015D	5348
885-4824-32	PS-32	Total/NA	Solid	8015D	5348
885-4824-33	PS-33	Total/NA	Solid	8015D	5348
885-4824-34	PS-34	Total/NA	Solid	8015D	5348
885-4824-35	PS-35	Total/NA	Solid	8015D	5348
885-4824-36	PS-36	Total/NA	Solid	8015D	5348
885-4824-37	PS-37	Total/NA	Solid	8015D	5348
885-4824-38	PS-38	Total/NA	Solid	8015D	5348
885-4824-39	PS-39	Total/NA	Solid	8015D	5348
885-4824-40	PS-40	Total/NA	Solid	8015D	5348
MB 885-5348/1-A	Method Blank	Total/NA	Solid	8015D	5348
LCS 885-5348/2-A	Lab Control Sample	Total/NA	Solid	8015D	5348
885-4824-21 MS	PS-21	Total/NA	Solid	8015D	5348
885-4824-21 MSD	PS-21	Total/NA	Solid	8015D	5348

Analysis Batch: 5620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-21	PS-21	Total/NA	Solid	8021B	5348
885-4824-22	PS-22	Total/NA	Solid	8021B	5348
885-4824-23	PS-23	Total/NA	Solid	8021B	5348
885-4824-24	PS-24	Total/NA	Solid	8021B	5348
885-4824-25	PS-25	Total/NA	Solid	8021B	5348
885-4824-26	PS-26	Total/NA	Solid	8021B	5348
885-4824-27	PS-27	Total/NA	Solid	8021B	5348
885-4824-28	PS-28	Total/NA	Solid	8021B	5348
885-4824-29	PS-29	Total/NA	Solid	8021B	5348
885-4824-30	PS-30	Total/NA	Solid	8021B	5348
885-4824-31	PS-31	Total/NA	Solid	8021B	5348
885-4824-32	PS-32	Total/NA	Solid	8021B	5348

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

GC VOA (Continued)

Analysis Batch: 5620 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-33	PS-33	Total/NA	Solid	8021B	5348
885-4824-34	PS-34	Total/NA	Solid	8021B	5348
885-4824-35	PS-35	Total/NA	Solid	8021B	5348
885-4824-36	PS-36	Total/NA	Solid	8021B	5348
885-4824-37	PS-37	Total/NA	Solid	8021B	5348
885-4824-38	PS-38	Total/NA	Solid	8021B	5348
885-4824-39	PS-39	Total/NA	Solid	8021B	5348
885-4824-40	PS-40	Total/NA	Solid	8021B	5348
MB 885-5348/1-A	Method Blank	Total/NA	Solid	8021B	5348
LCS 885-5348/3-A	Lab Control Sample	Total/NA	Solid	8021B	5348
885-4824-22 MS	PS-22	Total/NA	Solid	8021B	5348
885-4824-22 MSD	PS-22	Total/NA	Solid	8021B	5348

GC Semi VOA

Prep Batch: 5363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-1	PS-1	Total/NA	Solid	SHAKE	
885-4824-2	PS-2	Total/NA	Solid	SHAKE	
885-4824-3	PS-3	Total/NA	Solid	SHAKE	
885-4824-4	PS-4	Total/NA	Solid	SHAKE	
885-4824-5	PS-5	Total/NA	Solid	SHAKE	
885-4824-6	PS-6	Total/NA	Solid	SHAKE	
885-4824-7	PS-7	Total/NA	Solid	SHAKE	
885-4824-8	PS-8	Total/NA	Solid	SHAKE	
885-4824-9	PS-9	Total/NA	Solid	SHAKE	
885-4824-10	PS-10	Total/NA	Solid	SHAKE	
885-4824-11	PS-11	Total/NA	Solid	SHAKE	
885-4824-12	PS-12	Total/NA	Solid	SHAKE	
885-4824-13	PS-13	Total/NA	Solid	SHAKE	
885-4824-14	PS-14	Total/NA	Solid	SHAKE	
885-4824-15	PS-15	Total/NA	Solid	SHAKE	
885-4824-16	PS-16	Total/NA	Solid	SHAKE	
885-4824-17	PS-17	Total/NA	Solid	SHAKE	
885-4824-18	PS-18	Total/NA	Solid	SHAKE	
885-4824-19	PS-19	Total/NA	Solid	SHAKE	
885-4824-20	PS-20	Total/NA	Solid	SHAKE	
MB 885-5363/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-5363/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-4824-20 MS	PS-20	Total/NA	Solid	SHAKE	
885-4824-20 MSD	PS-20	Total/NA	Solid	SHAKE	

Prep Batch: 5379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-21	PS-21	Total/NA	Solid	SHAKE	
885-4824-22	PS-22	Total/NA	Solid	SHAKE	
885-4824-23	PS-23	Total/NA	Solid	SHAKE	
885-4824-25	PS-25	Total/NA	Solid	SHAKE	
885-4824-28	PS-28	Total/NA	Solid	SHAKE	
885-4824-30	PS-30	Total/NA	Solid	SHAKE	
885-4824-31	PS-31	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

GC Semi VOA (Continued)

Prep Batch: 5379 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-33	PS-33	Total/NA	Solid	SHAKE	
885-4824-34	PS-34	Total/NA	Solid	SHAKE	
885-4824-35	PS-35	Total/NA	Solid	SHAKE	
885-4824-36	PS-36	Total/NA	Solid	SHAKE	
885-4824-37	PS-37	Total/NA	Solid	SHAKE	
885-4824-38	PS-38	Total/NA	Solid	SHAKE	
885-4824-39	PS-39	Total/NA	Solid	SHAKE	
885-4824-40	PS-40	Total/NA	Solid	SHAKE	
MB 885-5379/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-5379/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-4824-40 MS	PS-40	Total/NA	Solid	SHAKE	
885-4824-40 MSD	PS-40	Total/NA	Solid	SHAKE	

Analysis Batch: 5448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-21	PS-21	Total/NA	Solid	8015D	5379
885-4824-22	PS-22	Total/NA	Solid	8015D	5379
885-4824-25	PS-25	Total/NA	Solid	8015D	5379
885-4824-28	PS-28	Total/NA	Solid	8015D	5379
885-4824-31	PS-31	Total/NA	Solid	8015D	5379
885-4824-33	PS-33	Total/NA	Solid	8015D	5379
885-4824-34	PS-34	Total/NA	Solid	8015D	5379
885-4824-35	PS-35	Total/NA	Solid	8015D	5379
885-4824-36	PS-36	Total/NA	Solid	8015D	5379
885-4824-37	PS-37	Total/NA	Solid	8015D	5379
885-4824-38	PS-38	Total/NA	Solid	8015D	5379
885-4824-39	PS-39	Total/NA	Solid	8015D	5379
885-4824-40	PS-40	Total/NA	Solid	8015D	5379
MB 885-5363/1-A	Method Blank	Total/NA	Solid	8015D	5363
MB 885-5379/1-A	Method Blank	Total/NA	Solid	8015D	5379
LCS 885-5379/2-A	Lab Control Sample	Total/NA	Solid	8015D	5379
885-4824-40 MS	PS-40	Total/NA	Solid	8015D	5379
885-4824-40 MSD	PS-40	Total/NA	Solid	8015D	5379

Analysis Batch: 5504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-1	PS-1	Total/NA	Solid	8015D	5363
885-4824-2	PS-2	Total/NA	Solid	8015D	5363
885-4824-3	PS-3	Total/NA	Solid	8015D	5363
885-4824-4	PS-4	Total/NA	Solid	8015D	5363
885-4824-5	PS-5	Total/NA	Solid	8015D	5363
885-4824-6	PS-6	Total/NA	Solid	8015D	5363
885-4824-7	PS-7	Total/NA	Solid	8015D	5363
885-4824-8	PS-8	Total/NA	Solid	8015D	5363
885-4824-9	PS-9	Total/NA	Solid	8015D	5363
885-4824-10	PS-10	Total/NA	Solid	8015D	5363
885-4824-11	PS-11	Total/NA	Solid	8015D	5363
885-4824-12	PS-12	Total/NA	Solid	8015D	5363
885-4824-13	PS-13	Total/NA	Solid	8015D	5363
885-4824-14	PS-14	Total/NA	Solid	8015D	5363
885-4824-15	PS-15	Total/NA	Solid	8015D	5363

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

GC Semi VOA (Continued)

Analysis Batch: 5504 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-16	PS-16	Total/NA	Solid	8015D	5363
885-4824-17	PS-17	Total/NA	Solid	8015D	5363
885-4824-18	PS-18	Total/NA	Solid	8015D	5363
885-4824-19	PS-19	Total/NA	Solid	8015D	5363
885-4824-20	PS-20	Total/NA	Solid	8015D	5363
LCS 885-5363/2-A	Lab Control Sample	Total/NA	Solid	8015D	5363
885-4824-20 MS	PS-20	Total/NA	Solid	8015D	5363
885-4824-20 MSD	PS-20	Total/NA	Solid	8015D	5363

Prep Batch: 5641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-24	PS-24	Total/NA	Solid	SHAKE	
885-4824-26	PS-26	Total/NA	Solid	SHAKE	
885-4824-27	PS-27	Total/NA	Solid	SHAKE	
885-4824-29	PS-29	Total/NA	Solid	SHAKE	
885-4824-32	PS-32	Total/NA	Solid	SHAKE	
MB 885-5641/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-5641/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 5719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-24	PS-24	Total/NA	Solid	8015D	5641
885-4824-26	PS-26	Total/NA	Solid	8015D	5641
885-4824-27	PS-27	Total/NA	Solid	8015D	5641
885-4824-29	PS-29	Total/NA	Solid	8015D	5641
885-4824-32	PS-32	Total/NA	Solid	8015D	5641
MB 885-5641/1-A	Method Blank	Total/NA	Solid	8015D	5641
LCS 885-5641/2-A	Lab Control Sample	Total/NA	Solid	8015D	5641

Analysis Batch: 5742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-23	PS-23	Total/NA	Solid	8015D	5379
885-4824-30	PS-30	Total/NA	Solid	8015D	5379

HPLC/IC

Prep Batch: 5377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-1	PS-1	Total/NA	Solid	300_Prep	
885-4824-2	PS-2	Total/NA	Solid	300_Prep	
885-4824-3	PS-3	Total/NA	Solid	300_Prep	
885-4824-4	PS-4	Total/NA	Solid	300_Prep	
885-4824-5	PS-5	Total/NA	Solid	300_Prep	
885-4824-6	PS-6	Total/NA	Solid	300_Prep	
885-4824-7	PS-7	Total/NA	Solid	300_Prep	
885-4824-8	PS-8	Total/NA	Solid	300_Prep	
885-4824-9	PS-9	Total/NA	Solid	300_Prep	
885-4824-10	PS-10	Total/NA	Solid	300_Prep	
885-4824-11	PS-11	Total/NA	Solid	300_Prep	
885-4824-12	PS-12	Total/NA	Solid	300_Prep	
885-4824-13	PS-13	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

HPLC/IC (Continued)

Prep Batch: 5377 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-14	PS-14	Total/NA	Solid	300_Prep	
885-4824-15	PS-15	Total/NA	Solid	300_Prep	
885-4824-16	PS-16	Total/NA	Solid	300_Prep	
885-4824-17	PS-17	Total/NA	Solid	300_Prep	
885-4824-18	PS-18	Total/NA	Solid	300_Prep	
885-4824-19	PS-19	Total/NA	Solid	300_Prep	
885-4824-20	PS-20	Total/NA	Solid	300_Prep	
MB 885-5377/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-5377/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-4824-1 MS	PS-1	Total/NA	Solid	300_Prep	
885-4824-1 MSD	PS-1	Total/NA	Solid	300_Prep	
885-4824-8 MS	PS-8	Total/NA	Solid	300_Prep	
885-4824-8 MSD	PS-8	Total/NA	Solid	300_Prep	

Prep Batch: 5400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-21	PS-21	Total/NA	Solid	300_Prep	
885-4824-22	PS-22	Total/NA	Solid	300_Prep	
885-4824-23	PS-23	Total/NA	Solid	300_Prep	
885-4824-24	PS-24	Total/NA	Solid	300_Prep	
885-4824-25	PS-25	Total/NA	Solid	300_Prep	
885-4824-26	PS-26	Total/NA	Solid	300_Prep	
885-4824-27	PS-27	Total/NA	Solid	300_Prep	
885-4824-28	PS-28	Total/NA	Solid	300_Prep	
885-4824-29	PS-29	Total/NA	Solid	300_Prep	
885-4824-30	PS-30	Total/NA	Solid	300_Prep	
885-4824-31	PS-31	Total/NA	Solid	300_Prep	
885-4824-32	PS-32	Total/NA	Solid	300_Prep	
885-4824-33	PS-33	Total/NA	Solid	300_Prep	
885-4824-34	PS-34	Total/NA	Solid	300_Prep	
885-4824-35	PS-35	Total/NA	Solid	300_Prep	
885-4824-36	PS-36	Total/NA	Solid	300_Prep	
885-4824-37	PS-37	Total/NA	Solid	300_Prep	
885-4824-38	PS-38	Total/NA	Solid	300_Prep	
885-4824-39	PS-39	Total/NA	Solid	300_Prep	
885-4824-40	PS-40	Total/NA	Solid	300_Prep	
MB 885-5400/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-5400/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 5406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-1	PS-1	Total/NA	Solid	300.0	5377
885-4824-2	PS-2	Total/NA	Solid	300.0	5377
885-4824-3	PS-3	Total/NA	Solid	300.0	5377
885-4824-4	PS-4	Total/NA	Solid	300.0	5377
885-4824-5	PS-5	Total/NA	Solid	300.0	5377
885-4824-6	PS-6	Total/NA	Solid	300.0	5377
885-4824-7	PS-7	Total/NA	Solid	300.0	5377
885-4824-8	PS-8	Total/NA	Solid	300.0	5377
885-4824-9	PS-9	Total/NA	Solid	300.0	5377
885-4824-10	PS-10	Total/NA	Solid	300.0	5377

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

HPLC/IC (Continued)

Analysis Batch: 5406 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-11	PS-11	Total/NA	Solid	300.0	5377
885-4824-12	PS-12	Total/NA	Solid	300.0	5377
885-4824-13	PS-13	Total/NA	Solid	300.0	5377
885-4824-14	PS-14	Total/NA	Solid	300.0	5377
885-4824-15	PS-15	Total/NA	Solid	300.0	5377
885-4824-16	PS-16	Total/NA	Solid	300.0	5377
885-4824-17	PS-17	Total/NA	Solid	300.0	5377
885-4824-18	PS-18	Total/NA	Solid	300.0	5377
885-4824-19	PS-19	Total/NA	Solid	300.0	5377
885-4824-20	PS-20	Total/NA	Solid	300.0	5377
MB 885-5377/1-A	Method Blank	Total/NA	Solid	300.0	5377
LCS 885-5377/2-A	Lab Control Sample	Total/NA	Solid	300.0	5377
885-4824-1 MS	PS-1	Total/NA	Solid	300.0	5377
885-4824-1 MSD	PS-1	Total/NA	Solid	300.0	5377
885-4824-8 MS	PS-8	Total/NA	Solid	300.0	5377
885-4824-8 MSD	PS-8	Total/NA	Solid	300.0	5377

Analysis Batch: 5493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4824-21	PS-21	Total/NA	Solid	300.0	5400
885-4824-22	PS-22	Total/NA	Solid	300.0	5400
885-4824-23	PS-23	Total/NA	Solid	300.0	5400
885-4824-24	PS-24	Total/NA	Solid	300.0	5400
885-4824-25	PS-25	Total/NA	Solid	300.0	5400
885-4824-26	PS-26	Total/NA	Solid	300.0	5400
885-4824-27	PS-27	Total/NA	Solid	300.0	5400
885-4824-28	PS-28	Total/NA	Solid	300.0	5400
885-4824-29	PS-29	Total/NA	Solid	300.0	5400
885-4824-30	PS-30	Total/NA	Solid	300.0	5400
885-4824-31	PS-31	Total/NA	Solid	300.0	5400
885-4824-32	PS-32	Total/NA	Solid	300.0	5400
885-4824-33	PS-33	Total/NA	Solid	300.0	5400
885-4824-34	PS-34	Total/NA	Solid	300.0	5400
885-4824-35	PS-35	Total/NA	Solid	300.0	5400
885-4824-36	PS-36	Total/NA	Solid	300.0	5400
885-4824-37	PS-37	Total/NA	Solid	300.0	5400
885-4824-38	PS-38	Total/NA	Solid	300.0	5400
885-4824-39	PS-39	Total/NA	Solid	300.0	5400
885-4824-40	PS-40	Total/NA	Solid	300.0	5400
MB 885-5400/1-A	Method Blank	Total/NA	Solid	300.0	5400
LCS 885-5400/2-A	Lab Control Sample	Total/NA	Solid	300.0	5400

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-1

Lab Sample ID: 885-4824-1
Matrix: Solid
Date Collected: 05/16/24 08:50
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/22/24 18:08
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/22/24 18:08
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 15:44
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 16:06

Client Sample ID: PS-2

Lab Sample ID: 885-4824-2
Matrix: Solid
Date Collected: 05/16/24 08:54
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/22/24 19:19
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/22/24 19:19
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 15:55
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 16:51

Client Sample ID: PS-3

Lab Sample ID: 885-4824-3
Matrix: Solid
Date Collected: 05/16/24 09:02
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/22/24 20:29
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/22/24 20:29
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 16:06
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 17:06

Client Sample ID: PS-4

Lab Sample ID: 885-4824-4
Matrix: Solid
Date Collected: 05/16/24 09:04
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/22/24 20:53

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-4

Lab Sample ID: 885-4824-4

Date Collected: 05/16/24 09:04
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/22/24 20:53
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 16:17
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 17:21

Client Sample ID: PS-5

Lab Sample ID: 885-4824-5

Date Collected: 05/16/24 09:08
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/22/24 21:16
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/22/24 21:16
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 16:27
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 17:37

Client Sample ID: PS-6

Lab Sample ID: 885-4824-6

Date Collected: 05/16/24 09:12
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/22/24 21:40
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/22/24 21:40
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 16:38
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 18:22

Client Sample ID: PS-7

Lab Sample ID: 885-4824-7

Date Collected: 05/16/24 09:18
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/22/24 22:03
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/22/24 22:03

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-4824-1
Project/Site: Roy SWD #3

Client Sample ID: PS-7
Lab Sample ID: 885-4824-7
Date Collected: 05/16/24 09:18
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 16:49
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 18:37

Client Sample ID: PS-8
Lab Sample ID: 885-4824-8
Date Collected: 05/16/24 09:20
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/22/24 22:27
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/22/24 22:27
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 17:00
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 18:52

Client Sample ID: PS-9
Lab Sample ID: 885-4824-9
Date Collected: 05/16/24 09:24
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/22/24 22:50
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/22/24 22:50
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 17:11
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 19:38

Client Sample ID: PS-10
Lab Sample ID: 885-4824-10
Date Collected: 05/16/24 09:26
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/22/24 23:14
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/22/24 23:14
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 17:22

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-10

Date Collected: 05/16/24 09:26
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 19:53

Client Sample ID: PS-11

Date Collected: 05/16/24 10:00
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/23/24 00:01
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/23/24 00:01
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 17:33
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 20:08

Client Sample ID: PS-12

Date Collected: 05/16/24 10:02
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/23/24 00:25
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/23/24 00:25
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 17:44
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 20:23

Client Sample ID: PS-13

Date Collected: 05/16/24 10:04
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/23/24 00:48
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/23/24 00:48
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 17:55
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 20:38

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-14

Lab Sample ID: 885-4824-14

Date Collected: 05/16/24 10:10
Date Received: 05/21/24 07:40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/23/24 01:12
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/23/24 01:12
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 18:06
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 21:24

Client Sample ID: PS-15

Lab Sample ID: 885-4824-15

Date Collected: 05/16/24 10:16
Date Received: 05/21/24 07:40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/23/24 01:35
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/23/24 01:35
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 18:17
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 21:39

Client Sample ID: PS-16

Lab Sample ID: 885-4824-16

Date Collected: 05/16/24 10:20
Date Received: 05/21/24 07:40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/23/24 01:59
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/23/24 01:59
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 18:29
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 21:54

Client Sample ID: PS-17

Lab Sample ID: 885-4824-17

Date Collected: 05/16/24 10:26
Date Received: 05/21/24 07:40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/23/24 02:23

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-17

Lab Sample ID: 885-4824-17

Date Collected: 05/16/24 10:26
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/23/24 02:23
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 18:40
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 22:09

Client Sample ID: PS-18

Lab Sample ID: 885-4824-18

Date Collected: 05/16/24 10:30
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/23/24 02:46
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/23/24 02:46
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 18:51
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 22:25

Client Sample ID: PS-19

Lab Sample ID: 885-4824-19

Date Collected: 05/16/24 10:34
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/23/24 03:10
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/23/24 03:10
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 19:03
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 22:40

Client Sample ID: PS-20

Lab Sample ID: 885-4824-20

Date Collected: 05/16/24 10:38
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8015D		1	5538	JP	EET ALB	05/23/24 03:33
Total/NA	Prep	5030C			5336	AT	EET ALB	05/21/24 09:20
Total/NA	Analysis	8021B		1	5539	JP	EET ALB	05/23/24 03:33

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-20

Lab Sample ID: 885-4824-20

Date Collected: 05/16/24 10:38
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			5363	JU	EET ALB	05/21/24 12:15
Total/NA	Analysis	8015D		1	5504	PD	EET ALB	05/21/24 19:14
Total/NA	Prep	300_Prep			5377	JT	EET ALB	05/21/24 14:11
Total/NA	Analysis	300.0		20	5406	JT	EET ALB	05/21/24 22:55

Client Sample ID: PS-21

Lab Sample ID: 885-4824-21

Date Collected: 05/16/24 13:10
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/23/24 20:01
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/23/24 20:01
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5448	PD	EET ALB	05/22/24 13:09
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 08:33

Client Sample ID: PS-22

Lab Sample ID: 885-4824-22

Date Collected: 05/16/24 13:14
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/23/24 21:11
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/23/24 21:11
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5448	PD	EET ALB	05/22/24 13:20
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 09:10

Client Sample ID: PS-23

Lab Sample ID: 885-4824-23

Date Collected: 05/16/24 13:20
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/23/24 22:45
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/23/24 22:45
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5742	JU	EET ALB	05/24/24 10:38

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-23

Date Collected: 05/16/24 13:20
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 09:22

Client Sample ID: PS-24

Date Collected: 05/16/24 13:26
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/23/24 23:09
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/23/24 23:09
Total/NA	Prep	SHAKE			5641	JU	EET ALB	05/24/24 14:07
Total/NA	Analysis	8015D		1	5719	JU	EET ALB	05/28/24 13:59
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 09:35

Client Sample ID: PS-25

Date Collected: 05/16/24 13:30
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/23/24 23:33
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/23/24 23:33
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5448	PD	EET ALB	05/22/24 13:52
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 09:47

Client Sample ID: PS-26

Date Collected: 05/16/24 13:32
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/23/24 23:56
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/23/24 23:56
Total/NA	Prep	SHAKE			5641	JU	EET ALB	05/24/24 14:07
Total/NA	Analysis	8015D		1	5719	JU	EET ALB	05/28/24 14:12
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 09:59

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-27

Lab Sample ID: 885-4824-27

Date Collected: 05/16/24 13:36
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 00:20
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 00:20
Total/NA	Prep	SHAKE			5641	JU	EET ALB	05/24/24 14:07
Total/NA	Analysis	8015D		1	5719	JU	EET ALB	05/28/24 14:24
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 10:12

Client Sample ID: PS-28

Lab Sample ID: 885-4824-28

Date Collected: 05/16/24 13:40
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 00:43
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 00:43
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5448	PD	EET ALB	05/22/24 14:24
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 10:24

Client Sample ID: PS-29

Lab Sample ID: 885-4824-29

Date Collected: 05/16/24 13:42
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 01:06
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 01:06
Total/NA	Prep	SHAKE			5641	JU	EET ALB	05/24/24 14:07
Total/NA	Analysis	8015D		1	5719	JU	EET ALB	05/28/24 14:37
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 11:01

Client Sample ID: PS-30

Lab Sample ID: 885-4824-30

Date Collected: 05/16/24 13:48
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 01:30

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-30

Lab Sample ID: 885-4824-30

Date Collected: 05/16/24 13:48
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 01:30
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5742	JU	EET ALB	05/24/24 12:38
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 11:13

Client Sample ID: PS-31

Lab Sample ID: 885-4824-31

Date Collected: 05/16/24 14:00
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 02:16
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 02:16
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5448	PD	EET ALB	05/22/24 14:57
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 11:50

Client Sample ID: PS-32

Lab Sample ID: 885-4824-32

Date Collected: 05/16/24 14:10
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 02:40
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 02:40
Total/NA	Prep	SHAKE			5641	JU	EET ALB	05/24/24 14:07
Total/NA	Analysis	8015D		1	5719	JU	EET ALB	05/28/24 14:50
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 12:03

Client Sample ID: PS-33

Lab Sample ID: 885-4824-33

Date Collected: 05/16/24 14:14
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 03:04
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 03:04

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-4824-1
Project/Site: Roy SWD #3

Client Sample ID: PS-33
Lab Sample ID: 885-4824-33
Date Collected: 05/16/24 14:14
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5448	PD	EET ALB	05/22/24 15:18
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 12:15

Client Sample ID: PS-34
Lab Sample ID: 885-4824-34
Date Collected: 05/16/24 14:16
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 03:27
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 03:27
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5448	PD	EET ALB	05/22/24 15:29
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 12:28

Client Sample ID: PS-35
Lab Sample ID: 885-4824-35
Date Collected: 05/16/24 14:20
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 03:51
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 03:51
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5448	PD	EET ALB	05/22/24 15:40
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 12:40

Client Sample ID: PS-36
Lab Sample ID: 885-4824-36
Date Collected: 05/16/24 14:22
Matrix: Solid
Date Received: 05/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 04:14
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 04:14
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5448	PD	EET ALB	05/22/24 15:51

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-36

Date Collected: 05/16/24 14:22
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-36

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 12:52

Client Sample ID: PS-37

Date Collected: 05/16/24 14:24
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-37

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 04:38
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 04:38
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5448	PD	EET ALB	05/22/24 16:02
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 13:29

Client Sample ID: PS-38

Date Collected: 05/16/24 14:26
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-38

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 05:02
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 05:02
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5448	PD	EET ALB	05/22/24 16:13
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 13:42

Client Sample ID: PS-39

Date Collected: 05/16/24 14:30
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 05:25
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 05:25
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5448	PD	EET ALB	05/22/24 16:24
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 13:54

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-4824-1

Client Sample ID: PS-40

Date Collected: 05/16/24 14:32
Date Received: 05/21/24 07:40

Lab Sample ID: 885-4824-40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8015D		1	5619	JP	EET ALB	05/24/24 05:48
Total/NA	Prep	5030C			5348	AT	EET ALB	05/21/24 11:04
Total/NA	Analysis	8021B		1	5620	JP	EET ALB	05/24/24 05:48
Total/NA	Prep	SHAKE			5379	JU	EET ALB	05/21/24 14:34
Total/NA	Analysis	8015D		1	5448	PD	EET ALB	05/22/24 16:35
Total/NA	Prep	300_Prep			5400	JT	EET ALB	05/22/24 06:56
Total/NA	Analysis	300.0		20	5493	RC	EET ALB	05/22/24 14:06

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-4824-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☒ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ~~☐~~ Yes ☐ No

# of Coolers: 1 Monty

Cooler Temp(Including CF): 0.9+0.1=1.0 °C

HALL ENVIRONMENTAL ANALYSIS LABO
4901 Hawkins NE - Albuquerque, NM 87
Tel. 505-345-3975 Fax 505-345-4107

885-4824 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
5/16/24	0850	Soil	PS-1	1x4oz Jar	ICE	1	X	X	X
	0854		PS-2			2			
	0902		PS-3			3			
	0904		PS-4			4			
	0908		PS-5			5			
	0912		PS-6			6			
	0918		PS-7			7			
	0926		PS-8			8			
	0924		PS-9			9			
	0926		PS-10			10			
	1000		PS-11			11			
	1002		PS-12			12			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/20/24	850				5/20/24	850
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
				Courier	5/21/24	7:40

Remarks: Bill tc EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time: EOG

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1 Moty

Cooler Temp(Including CF): 6.8+0.1=20.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
5/16/24	1004	soil	PS-13	1x4oz Jar	ICE	13	X	X	X
	1010		PS-14			14			
	1016		PS-15			15			
	1020		PS-16			16			
	1026		PS-17			17			
	1030		PS-18			19			
	1034		PS-19			19			
	1038		PS-20			20			
	1310		PS-21			21			
	1314		PS-22			22			
	1320		PS-23			23			
	1326		PS-24			24			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/20/24					5/20/24	0830
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
				Courier	5/21/24	7:40

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

5/29/2024

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(Including CF): 0.8+0.1=0.9 Monty

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
5/16/24	1330	Soil	PS-25	1x4oz Jar	ICE	25	X	X	X
	1332		PS-26			26			
	1336		PS-27			27			
	1340		PS-28			28			
	1342		PS-29			29			
	1348		PS-30			30			
	1400		PS-31			31			
	1410		PS-32			32			
	1414		PS-33			33			
	1416		PS-34			34			
	1420		PS-35			35			
	1422		PS-36			36			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/20/24	0850				5/20/24	0850
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
				courier	5/21/24	7:40

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ~~☐ Yes~~ ☐ No

# of Coolers: 1 Mo+7

Cooler Temp(Including CF): 0.8+0.1=0.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
5/16/24	1424	Soil	PS-37	1X4oz JAR	ICE	37	X	X	X
"	1426	"	PS-38	"	"	38	"	"	"
"	1430	"	PS-39	"	"	39	"	"	"
"	1432	"	PS-40	"	"	40	"	"	"

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/20/24	830				5/20/24	830
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
				courier	5/21/24	7:40

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-4824-1

Login Number: 4824 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 6/4/2024 3:23:25 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-5134-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-5134-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-5134-1
Project/Site: Roy SWD #3

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc Job ID: 885-5134-1
Project: Roy SWD #3

Job ID: 885-5134-1 **Eurofins Albuquerque**

Job Narrative
885-5134-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/25/2024 7:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-5721 and analytical batch 885-5938 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015D_DRO: Surrogate recovery for the following sample was outside control limits: (885-5134-A-7-C MS). Evidence of matrix interferences is not obvious. Parent and MSD have passing surrogate.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_OF_28D_PREC: The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 885-5755 and analytical batch 885-5840 exceeded control limits for the following analyte(s): Cl, Note that this analyte is a known poor performer when analyzed using this method.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-1

Date Collected: 05/24/24 08:40
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/28/24 09:01	05/30/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*05/28/24 09:01*	*05/30/24 18:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/28/24 09:01	05/30/24 18:27	1
Ethylbenzene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 18:27	1
Toluene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 18:27	1
Xylenes, Total	ND		0.097		mg/Kg		05/28/24 09:01	05/30/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/28/24 09:01*	*05/30/24 18:27*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		05/28/24 13:30	05/30/24 13:33	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/28/24 13:30	05/30/24 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*05/28/24 13:30*	*05/30/24 13:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**	**F1**	60		mg/Kg		05/29/24 07:48	05/29/24 12:18	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-2

Date Collected: 05/24/24 08:46
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/28/24 09:01	05/30/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*05/28/24 09:01*	*05/30/24 18:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/28/24 09:01	05/30/24 18:51	1
Ethylbenzene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 18:51	1
Toluene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 18:51	1
Xylenes, Total	ND		0.098		mg/Kg		05/28/24 09:01	05/30/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/28/24 09:01*	*05/30/24 18:51*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		05/28/24 13:30	05/30/24 13:57	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/28/24 13:30	05/30/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*66*		*62 - 134*	*05/28/24 13:30*	*05/30/24 13:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**	**F1**	60		mg/Kg		05/29/24 07:48	05/29/24 12:55	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-3

Date Collected: 05/24/24 08:50
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/28/24 09:01	05/30/24 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*05/28/24 09:01*	*05/30/24 19:14*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/28/24 09:01	05/30/24 19:14	1
Ethylbenzene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 19:14	1
Toluene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 19:14	1
Xylenes, Total	ND		0.099		mg/Kg		05/28/24 09:01	05/30/24 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/28/24 09:01*	*05/30/24 19:14*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		05/28/24 13:30	05/30/24 14:22	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/28/24 13:30	05/30/24 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*05/28/24 13:30*	*05/30/24 14:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		60		mg/Kg		05/29/24 07:48	05/29/24 13:32	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Job ID: 885-5134-1
Project/Site: Roy SWD #3

Client Sample ID: NPW-4
Lab Sample ID: 885-5134-4
Date Collected: 05/24/24 08:54
Matrix: Solid
Date Received: 05/25/24 07:30

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/28/24 09:01	05/30/24 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*05/28/24 09:01*	*05/30/24 19:38*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/28/24 09:01	05/30/24 19:38	1
Ethylbenzene	ND		0.048		mg/Kg		05/28/24 09:01	05/30/24 19:38	1
Toluene	ND		0.048		mg/Kg		05/28/24 09:01	05/30/24 19:38	1
Xylenes, Total	ND		0.096		mg/Kg		05/28/24 09:01	05/30/24 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/28/24 09:01*	*05/30/24 19:38*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		05/28/24 13:30	05/30/24 14:46	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/28/24 13:30	05/30/24 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*63*		*62 - 134*	*05/28/24 13:30*	*05/30/24 14:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		60		mg/Kg		05/29/24 07:48	05/29/24 13:44	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-5

Date Collected: 05/24/24 08:56
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/28/24 09:01	05/30/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*05/28/24 09:01*	*05/30/24 20:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/28/24 09:01	05/30/24 20:01	1
Ethylbenzene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 20:01	1
Toluene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 20:01	1
Xylenes, Total	ND		0.098		mg/Kg		05/28/24 09:01	05/30/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*05/28/24 09:01*	*05/30/24 20:01*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8		mg/Kg		05/28/24 13:30	05/30/24 15:11	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		05/28/24 13:30	05/30/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*66*		*62 - 134*	*05/28/24 13:30*	*05/30/24 15:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		05/29/24 07:48	05/29/24 13:56	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-6

Date Collected: 05/24/24 09:02
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/28/24 09:01	05/30/24 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*05/28/24 09:01*	*05/30/24 20:24*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/28/24 09:01	05/30/24 20:24	1
Ethylbenzene	ND		0.048		mg/Kg		05/28/24 09:01	05/30/24 20:24	1
Toluene	ND		0.048		mg/Kg		05/28/24 09:01	05/30/24 20:24	1
Xylenes, Total	ND		0.096		mg/Kg		05/28/24 09:01	05/30/24 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*05/28/24 09:01*	*05/30/24 20:24*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.5		mg/Kg		05/28/24 13:30	05/30/24 16:00	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		05/28/24 13:30	05/30/24 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*72*		*62 - 134*	*05/28/24 13:30*	*05/30/24 16:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		59		mg/Kg		05/29/24 07:48	05/29/24 14:34	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-7

Date Collected: 05/24/24 09:08
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/28/24 09:01	05/30/24 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*05/28/24 09:01*	*05/30/24 20:48*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		05/28/24 09:01	05/30/24 20:48	1
Ethylbenzene	ND		0.047		mg/Kg		05/28/24 09:01	05/30/24 20:48	1
Toluene	ND		0.047		mg/Kg		05/28/24 09:01	05/30/24 20:48	1
Xylenes, Total	ND		0.094		mg/Kg		05/28/24 09:01	05/30/24 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*05/28/24 09:01*	*05/30/24 20:48*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	F2	8.7		mg/Kg		05/28/24 13:30	05/30/24 16:24	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		05/28/24 13:30	05/30/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*71*		*62 - 134*	*05/28/24 13:30*	*05/30/24 16:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		05/29/24 07:48	05/29/24 14:46	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-8

Date Collected: 05/24/24 09:12
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/28/24 11:56	05/29/24 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*05/28/24 11:56*	*05/29/24 20:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/28/24 11:56	05/29/24 20:10	1
Ethylbenzene	ND		0.047		mg/Kg		05/28/24 11:56	05/29/24 20:10	1
Toluene	ND		0.047		mg/Kg		05/28/24 11:56	05/29/24 20:10	1
Xylenes, Total	ND		0.095		mg/Kg		05/28/24 11:56	05/29/24 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/28/24 11:56*	*05/29/24 20:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		05/30/24 14:51	05/31/24 15:55	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/30/24 14:51	05/31/24 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*69*		*62 - 134*	*05/30/24 14:51*	*05/31/24 15:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		60		mg/Kg		05/30/24 14:06	05/30/24 21:59	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-5688/1-A
Matrix: Solid
Analysis Batch: 5929

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5688

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/28/24 09:01	05/30/24 11:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*05/28/24 09:01*	*05/30/24 11:02*	*1*

Lab Sample ID: LCS 885-5688/2-A
Matrix: Solid
Analysis Batch: 5929

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5688

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	22.8		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*197*	*S1+*	*35 - 166*

Lab Sample ID: MB 885-5705/1-A
Matrix: Solid
Analysis Batch: 5860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5705

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/28/24 11:56	05/29/24 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*05/28/24 11:56*	*05/29/24 11:11*	*1*

Lab Sample ID: LCS 885-5705/2-A
Matrix: Solid
Analysis Batch: 5860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5705

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.2		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*201*	*S1+*	*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-5688/1-A
Matrix: Solid
Analysis Batch: 5930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5688

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/28/24 09:01	05/30/24 11:02	1
Ethylbenzene	ND		0.050		mg/Kg		05/28/24 09:01	05/30/24 11:02	1
Toluene	ND		0.050		mg/Kg		05/28/24 09:01	05/30/24 11:02	1

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QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-5688/1-A
Matrix: Solid
Analysis Batch: 5930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5688

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		05/28/24 09:01	05/30/24 11:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/28/24 09:01*	*05/30/24 11:02*	*1*

Lab Sample ID: LCS 885-5688/3-A
Matrix: Solid
Analysis Batch: 5930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5688

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.915		mg/Kg		91	70 - 130		
Ethylbenzene			1.00	0.881		mg/Kg		88	70 - 130		
Toluene			1.00	0.872		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			2.00	1.76		mg/Kg		88	70 - 130		
o-Xylene			1.00	0.863		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*

Lab Sample ID: MB 885-5705/1-A
Matrix: Solid
Analysis Batch: 5861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5705

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/28/24 11:56	05/29/24 11:11	1
Ethylbenzene	ND		0.050		mg/Kg		05/28/24 11:56	05/29/24 11:11	1
Toluene	ND		0.050		mg/Kg		05/28/24 11:56	05/29/24 11:11	1
Xylenes, Total	ND		0.10		mg/Kg		05/28/24 11:56	05/29/24 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/28/24 11:56*	*05/29/24 11:11*	*1*

Lab Sample ID: LCS 885-5705/3-A
Matrix: Solid
Analysis Batch: 5861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5705

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.944		mg/Kg		94	70 - 130		
Ethylbenzene			1.00	0.884		mg/Kg		88	70 - 130		
Toluene			1.00	0.885		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene			2.00	1.80		mg/Kg		90	70 - 130		
o-Xylene			1.00	0.882		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: 885-5134-7 MS
Matrix: Solid
Analysis Batch: 5938

Client Sample ID: NPW-7
Prep Type: Total/NA
Prep Batch: 5721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND	F2	44.5	30.2		mg/Kg		68	44 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*58*	*S1-*	*62 - 134*

Lab Sample ID: 885-5134-7 MSD
Matrix: Solid
Analysis Batch: 5938

Client Sample ID: NPW-7
Prep Type: Total/NA
Prep Batch: 5721

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND	F2	45.7	47.5	F2	mg/Kg		104	44 - 136	44	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*

Lab Sample ID: MB 885-5887/1-A
Matrix: Solid
Analysis Batch: 5949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5887

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/30/24 14:51	05/31/24 13:42	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/30/24 14:51	05/31/24 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*113*		*62 - 134*	*05/30/24 14:51*	*05/31/24 13:42*	*1*

Lab Sample ID: LCS 885-5887/2-A
Matrix: Solid
Analysis Batch: 5949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5887

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	53.5		mg/Kg		107	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*

Lab Sample ID: 885-5134-8 MS
Matrix: Solid
Analysis Batch: 5949

Client Sample ID: NPW-8
Prep Type: Total/NA
Prep Batch: 5887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		47.9	50.9		mg/Kg		106	44 - 136

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-5134-8 MS
Matrix: Solid
Analysis Batch: 5949

Client Sample ID: NPW-8
Prep Type: Total/NA
Prep Batch: 5887

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*111*		*62 - 134*

Lab Sample ID: 885-5134-8 MSD
Matrix: Solid
Analysis Batch: 5949

Client Sample ID: NPW-8
Prep Type: Total/NA
Prep Batch: 5887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		49.9	47.8		mg/Kg		96	44 - 136	6	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-5755/2-A
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5755

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		05/29/24 07:48	05/29/24 09:38	1

Lab Sample ID: LCS 885-5755/3-A
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5755

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.5		mg/Kg		95	90 - 110		

Lab Sample ID: MRL 885-5755/1-A
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5755

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			3.50	3.29		mg/L		94	50 - 150		

Lab Sample ID: 885-5134-1 MS
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: NPW-1
Prep Type: Total/NA
Prep Batch: 5755

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	210	F1	635	255	F1	mg/Kg		8	50 - 150		

Lab Sample ID: 885-5134-1 MSD
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: NPW-1
Prep Type: Total/NA
Prep Batch: 5755

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	210	F1	624	262	F1	mg/Kg		9	50 - 150	3	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-5134-2 MS
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: NPW-2
Prep Type: Total/NA
Prep Batch: 5755

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	210	F1	635	248	F1	mg/Kg		5	50 - 150		

Lab Sample ID: 885-5134-2 MSD
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: NPW-2
Prep Type: Total/NA
Prep Batch: 5755

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	210	F1	624	249	F1	mg/Kg		6	50 - 150	0	20

Lab Sample ID: MB 885-5840/72
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/Kg			05/29/24 22:10	1

Lab Sample ID: MRL 885-5840/71
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.551		mg/L		110	50 - 150		

Lab Sample ID: MB 885-5883/1-A
Matrix: Solid
Analysis Batch: 5918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5883

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		05/30/24 14:06	05/30/24 16:38	1

Lab Sample ID: LCS 885-5883/2-A
Matrix: Solid
Analysis Batch: 5918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5883

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.0		mg/Kg		93	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

GC VOA

Prep Batch: 5688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	5030C	
885-5134-2	NPW-2	Total/NA	Solid	5030C	
885-5134-3	NPW-3	Total/NA	Solid	5030C	
885-5134-4	NPW-4	Total/NA	Solid	5030C	
885-5134-5	NPW-5	Total/NA	Solid	5030C	
885-5134-6	NPW-6	Total/NA	Solid	5030C	
885-5134-7	NPW-7	Total/NA	Solid	5030C	
MB 885-5688/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-5688/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-5688/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 5705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	5030C	
MB 885-5705/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-5705/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-5705/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 5860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	8015M/D	5705
MB 885-5705/1-A	Method Blank	Total/NA	Solid	8015M/D	5705
LCS 885-5705/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5705

Analysis Batch: 5861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	8021B	5705
MB 885-5705/1-A	Method Blank	Total/NA	Solid	8021B	5705
LCS 885-5705/3-A	Lab Control Sample	Total/NA	Solid	8021B	5705

Analysis Batch: 5929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	8015M/D	5688
885-5134-2	NPW-2	Total/NA	Solid	8015M/D	5688
885-5134-3	NPW-3	Total/NA	Solid	8015M/D	5688
885-5134-4	NPW-4	Total/NA	Solid	8015M/D	5688
885-5134-5	NPW-5	Total/NA	Solid	8015M/D	5688
885-5134-6	NPW-6	Total/NA	Solid	8015M/D	5688
885-5134-7	NPW-7	Total/NA	Solid	8015M/D	5688
MB 885-5688/1-A	Method Blank	Total/NA	Solid	8015M/D	5688
LCS 885-5688/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5688

Analysis Batch: 5930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	8021B	5688
885-5134-2	NPW-2	Total/NA	Solid	8021B	5688
885-5134-3	NPW-3	Total/NA	Solid	8021B	5688
885-5134-4	NPW-4	Total/NA	Solid	8021B	5688
885-5134-5	NPW-5	Total/NA	Solid	8021B	5688
885-5134-6	NPW-6	Total/NA	Solid	8021B	5688
885-5134-7	NPW-7	Total/NA	Solid	8021B	5688

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

GC VOA (Continued)

Analysis Batch: 5930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-5688/1-A	Method Blank	Total/NA	Solid	8021B	5688
LCS 885-5688/3-A	Lab Control Sample	Total/NA	Solid	8021B	5688

GC Semi VOA

Prep Batch: 5721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	SHAKE	
885-5134-2	NPW-2	Total/NA	Solid	SHAKE	
885-5134-3	NPW-3	Total/NA	Solid	SHAKE	
885-5134-4	NPW-4	Total/NA	Solid	SHAKE	
885-5134-5	NPW-5	Total/NA	Solid	SHAKE	
885-5134-6	NPW-6	Total/NA	Solid	SHAKE	
885-5134-7	NPW-7	Total/NA	Solid	SHAKE	
885-5134-7 MS	NPW-7	Total/NA	Solid	SHAKE	
885-5134-7 MSD	NPW-7	Total/NA	Solid	SHAKE	

Prep Batch: 5887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	SHAKE	
MB 885-5887/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-5887/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-5134-8 MS	NPW-8	Total/NA	Solid	SHAKE	
885-5134-8 MSD	NPW-8	Total/NA	Solid	SHAKE	

Analysis Batch: 5938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	8015M/D	5721
885-5134-2	NPW-2	Total/NA	Solid	8015M/D	5721
885-5134-3	NPW-3	Total/NA	Solid	8015M/D	5721
885-5134-4	NPW-4	Total/NA	Solid	8015M/D	5721
885-5134-5	NPW-5	Total/NA	Solid	8015M/D	5721
885-5134-6	NPW-6	Total/NA	Solid	8015M/D	5721
885-5134-7	NPW-7	Total/NA	Solid	8015M/D	5721
885-5134-7 MS	NPW-7	Total/NA	Solid	8015M/D	5721
885-5134-7 MSD	NPW-7	Total/NA	Solid	8015M/D	5721

Analysis Batch: 5949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	8015M/D	5887
MB 885-5887/1-A	Method Blank	Total/NA	Solid	8015M/D	5887
LCS 885-5887/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5887
885-5134-8 MS	NPW-8	Total/NA	Solid	8015M/D	5887
885-5134-8 MSD	NPW-8	Total/NA	Solid	8015M/D	5887

HPLC/IC

Prep Batch: 5755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	300_Prep	
885-5134-2	NPW-2	Total/NA	Solid	300_Prep	
885-5134-3	NPW-3	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

HPLC/IC (Continued)

Prep Batch: 5755 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-4	NPW-4	Total/NA	Solid	300_Prep	
885-5134-5	NPW-5	Total/NA	Solid	300_Prep	
885-5134-6	NPW-6	Total/NA	Solid	300_Prep	
885-5134-7	NPW-7	Total/NA	Solid	300_Prep	
MB 885-5755/2-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-5755/3-A	Lab Control Sample	Total/NA	Solid	300_Prep	
MRL 885-5755/1-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-5134-1 MS	NPW-1	Total/NA	Solid	300_Prep	
885-5134-1 MSD	NPW-1	Total/NA	Solid	300_Prep	
885-5134-2 MS	NPW-2	Total/NA	Solid	300_Prep	
885-5134-2 MSD	NPW-2	Total/NA	Solid	300_Prep	

Analysis Batch: 5840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	300.0	5755
885-5134-2	NPW-2	Total/NA	Solid	300.0	5755
885-5134-3	NPW-3	Total/NA	Solid	300.0	5755
885-5134-4	NPW-4	Total/NA	Solid	300.0	5755
885-5134-5	NPW-5	Total/NA	Solid	300.0	5755
885-5134-6	NPW-6	Total/NA	Solid	300.0	5755
885-5134-7	NPW-7	Total/NA	Solid	300.0	5755
MB 885-5755/2-A	Method Blank	Total/NA	Solid	300.0	5755
MB 885-5840/72	Method Blank	Total/NA	Solid	300.0	
LCS 885-5755/3-A	Lab Control Sample	Total/NA	Solid	300.0	5755
MRL 885-5755/1-A	Lab Control Sample	Total/NA	Solid	300.0	5755
MRL 885-5840/71	Lab Control Sample	Total/NA	Solid	300.0	
885-5134-1 MS	NPW-1	Total/NA	Solid	300.0	5755
885-5134-1 MSD	NPW-1	Total/NA	Solid	300.0	5755
885-5134-2 MS	NPW-2	Total/NA	Solid	300.0	5755
885-5134-2 MSD	NPW-2	Total/NA	Solid	300.0	5755

Prep Batch: 5883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	300_Prep	
MB 885-5883/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-5883/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 5918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	300.0	5883
MB 885-5883/1-A	Method Blank	Total/NA	Solid	300.0	5883
LCS 885-5883/2-A	Lab Control Sample	Total/NA	Solid	300.0	5883

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-1

Lab Sample ID: 885-5134-1
Matrix: Solid
Date Collected: 05/24/24 08:40
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 18:27
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 18:27
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 13:33
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 12:18

Client Sample ID: NPW-2

Lab Sample ID: 885-5134-2
Matrix: Solid
Date Collected: 05/24/24 08:46
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 18:51
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 18:51
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 13:57
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 12:55

Client Sample ID: NPW-3

Lab Sample ID: 885-5134-3
Matrix: Solid
Date Collected: 05/24/24 08:50
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 19:14
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 19:14
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 14:22
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 13:32

Client Sample ID: NPW-4

Lab Sample ID: 885-5134-4
Matrix: Solid
Date Collected: 05/24/24 08:54
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 19:38

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-4

Date Collected: 05/24/24 08:54
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 19:38
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 14:46
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 13:44

Client Sample ID: NPW-5

Date Collected: 05/24/24 08:56
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 20:01
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 20:01
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 15:11
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 13:56

Client Sample ID: NPW-6

Date Collected: 05/24/24 09:02
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 20:24
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 20:24
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 16:00
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 14:34

Client Sample ID: NPW-7

Date Collected: 05/24/24 09:08
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 20:48
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 20:48

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-5134-1
Project/Site: Roy SWD #3

Client Sample ID: NPW-7
Lab Sample ID: 885-5134-7
Date Collected: 05/24/24 09:08
Matrix: Solid
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 16:24
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 14:46

Client Sample ID: NPW-8
Lab Sample ID: 885-5134-8
Date Collected: 05/24/24 09:12
Matrix: Solid
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5705	AT	EET ALB	05/28/24 11:56
Total/NA	Analysis	8015M/D		1	5860	JP	EET ALB	05/29/24 20:10
Total/NA	Prep	5030C			5705	AT	EET ALB	05/28/24 11:56
Total/NA	Analysis	8021B		1	5861	JP	EET ALB	05/29/24 20:10
Total/NA	Prep	SHAKE			5887	SB	EET ALB	05/30/24 14:51
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 15:55
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/30/24 21:59

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-5134-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☑ **Rush** 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1 40m.

Cooler Temp(including CF): 2.5+0.1=2.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 8710

Tel. 505-345-3975 Fax 505-345-4107

885-5134 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
5/24/24	0846	SOIL	NPW-1	1x4oz Jar	ICE		X	X	X
	0846		NPW-2						
	0850		NPW-3						
	0854		NPW-4						
	0856		NPW-5						
	0902		NPW-6						
	0908		NPW-7						
	0912		NPW-8						

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/24/24	1645				5/24/24	1645
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			Courier		5/25/24	7:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-5134-1

Login Number: 5134 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Rojas, Juan

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 7/24/2024 3:13:47 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-8018-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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7/24/2024 3:13:47 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Released to Imaging: 9/3/2025 1:20:26 PM

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-8018-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-8018-1
Project/Site: Roy SWD #3

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc Job ID: 885-8018-1
Project: Roy SWD #3

Job ID: 885-8018-1 Eurofins Albuquerque

Job Narrative
885-8018-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 7/16/2024 7:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-8875 recovered outside acceptance criteria, low biased, for Di-n-octyl phthalate (Surr). Samples degraded inlet liner, causing low surrogate recovery, all samples with low surrogate will be re-ran. Reporting all samples with passing surrogate. The following samples are associated P2-W1 (885-8018-1), P2-W2 (885-8018-2), P2-W3 (885-8018-3), P2-W4 (885-8018-4), P2-W6 (885-8018-6), P2-W7 (885-8018-7), P2-W9 (885-8018-9) and P2-W10 (885-8018-10).

Method 8015D_DRO: Surrogate recovery for the following samples is outside the lower control limit: P2-W16 (885-8018-16) and (885-8018-A-16-D MSD). Low surrogate recovery of both parent and MSD are confirmed by each other therefore re-extraction is not necessary. Reporting results as is.

Method 8015D_DRO: Surrogate recovery for the following sample is outside the lower control limit: P2-W8 (885-8018-8). Sample is preliminary data only and should not be in final report.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_OF_28D_PREC: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-8601 and analytical batch 885-8619 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W1

Date Collected: 07/12/24 09:20
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		07/16/24 12:17	07/19/24 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*07/16/24 12:17*	*07/19/24 03:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/16/24 12:17	07/18/24 04:12	1
Ethylbenzene	ND		0.048		mg/Kg		07/16/24 12:17	07/18/24 04:12	1
Toluene	ND		0.048		mg/Kg		07/16/24 12:17	07/18/24 04:12	1
Xylenes, Total	ND		0.096		mg/Kg		07/16/24 12:17	07/18/24 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*07/16/24 12:17*	*07/18/24 04:12*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		07/17/24 14:29	07/22/24 11:21	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/17/24 14:29	07/22/24 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*73*		*62 - 134*	*07/17/24 14:29*	*07/22/24 11:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		07/17/24 13:50	07/18/24 02:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W2

Date Collected: 07/12/24 09:24
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		07/16/24 12:17	07/19/24 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*07/16/24 12:17*	*07/19/24 03:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/16/24 12:17	07/18/24 04:34	1
Ethylbenzene	ND		0.048		mg/Kg		07/16/24 12:17	07/18/24 04:34	1
Toluene	ND		0.048		mg/Kg		07/16/24 12:17	07/18/24 04:34	1
Xylenes, Total	ND		0.097		mg/Kg		07/16/24 12:17	07/18/24 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*07/16/24 12:17*	*07/18/24 04:34*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		9.5		mg/Kg		07/17/24 14:29	07/22/24 11:32	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		07/17/24 14:29	07/22/24 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*07/17/24 14:29*	*07/22/24 11:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		60		mg/Kg		07/17/24 13:50	07/18/24 02:23	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W3

Date Collected: 07/12/24 09:26
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/16/24 12:17	07/19/24 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*07/16/24 12:17*	*07/19/24 04:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/16/24 12:17	07/18/24 05:17	1
Ethylbenzene	ND		0.049		mg/Kg		07/16/24 12:17	07/18/24 05:17	1
Toluene	ND		0.049		mg/Kg		07/16/24 12:17	07/18/24 05:17	1
Xylenes, Total	ND		0.098		mg/Kg		07/16/24 12:17	07/18/24 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*07/16/24 12:17*	*07/18/24 05:17*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		9.8		mg/Kg		07/17/24 14:29	07/22/24 11:43	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/17/24 14:29	07/22/24 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*70*		*62 - 134*	*07/17/24 14:29*	*07/22/24 11:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		60		mg/Kg		07/17/24 13:50	07/18/24 02:36	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W4

Date Collected: 07/12/24 09:30
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/16/24 12:17	07/19/24 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*07/16/24 12:17*	*07/19/24 04:32*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/16/24 12:17	07/18/24 05:39	1
Ethylbenzene	ND		0.049		mg/Kg		07/16/24 12:17	07/18/24 05:39	1
Toluene	ND		0.049		mg/Kg		07/16/24 12:17	07/18/24 05:39	1
Xylenes, Total	ND		0.098		mg/Kg		07/16/24 12:17	07/18/24 05:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*07/16/24 12:17*	*07/18/24 05:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**17**		9.5		mg/Kg		07/17/24 14:29	07/22/24 11:54	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		07/17/24 14:29	07/22/24 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*07/17/24 14:29*	*07/22/24 11:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**85**		60		mg/Kg		07/17/24 13:50	07/18/24 02:48	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W5

Date Collected: 07/12/24 09:34
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		07/16/24 12:17	07/19/24 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*07/16/24 12:17*	*07/19/24 04:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/16/24 12:17	07/18/24 06:01	1
Ethylbenzene	ND		0.048		mg/Kg		07/16/24 12:17	07/18/24 06:01	1
Toluene	ND		0.048		mg/Kg		07/16/24 12:17	07/18/24 06:01	1
Xylenes, Total	ND		0.097		mg/Kg		07/16/24 12:17	07/18/24 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*07/16/24 12:17*	*07/18/24 06:01*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		07/17/24 14:29	07/23/24 14:00	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		07/17/24 14:29	07/23/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*68*		*62 - 134*	*07/17/24 14:29*	*07/23/24 14:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		60		mg/Kg		07/17/24 13:50	07/18/24 03:00	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W6

Date Collected: 07/12/24 09:36
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		07/16/24 12:17	07/19/24 05:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*07/16/24 12:17*	*07/19/24 05:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/16/24 12:17	07/18/24 06:22	1
Ethylbenzene	ND		0.048		mg/Kg		07/16/24 12:17	07/18/24 06:22	1
Toluene	ND		0.048		mg/Kg		07/16/24 12:17	07/18/24 06:22	1
Xylenes, Total	ND		0.096		mg/Kg		07/16/24 12:17	07/18/24 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*07/16/24 12:17*	*07/18/24 06:22*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		07/17/24 14:29	07/22/24 12:15	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/17/24 14:29	07/22/24 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*71*		*62 - 134*	*07/17/24 14:29*	*07/22/24 12:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60		mg/Kg		07/17/24 13:50	07/18/24 03:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W7

Date Collected: 07/12/24 09:40
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		07/16/24 12:17	07/19/24 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*07/16/24 12:17*	*07/19/24 05:38*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/16/24 12:17	07/18/24 06:44	1
Ethylbenzene	ND		0.048		mg/Kg		07/16/24 12:17	07/18/24 06:44	1
Toluene	ND		0.048		mg/Kg		07/16/24 12:17	07/18/24 06:44	1
Xylenes, Total	ND		0.095		mg/Kg		07/16/24 12:17	07/18/24 06:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*07/16/24 12:17*	*07/18/24 06:44*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		07/17/24 14:29	07/22/24 12:26	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		07/17/24 14:29	07/22/24 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*77*		*62 - 134*	*07/17/24 14:29*	*07/22/24 12:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		60		mg/Kg		07/17/24 13:50	07/18/24 03:25	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W8

Date Collected: 07/12/24 09:44
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		07/16/24 12:17	07/19/24 05:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*07/16/24 12:17*	*07/19/24 05:59*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		07/16/24 12:17	07/18/24 07:06	1
Ethylbenzene	ND		0.047		mg/Kg		07/16/24 12:17	07/18/24 07:06	1
Toluene	ND		0.047		mg/Kg		07/16/24 12:17	07/18/24 07:06	1
Xylenes, Total	ND		0.093		mg/Kg		07/16/24 12:17	07/18/24 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*07/16/24 12:17*	*07/18/24 07:06*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		07/17/24 14:29	07/23/24 14:24	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/17/24 14:29	07/23/24 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*56*	*S1-*	*62 - 134*	*07/17/24 14:29*	*07/23/24 14:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		60		mg/Kg		07/17/24 15:56	07/17/24 23:09	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W9

Date Collected: 07/12/24 09:48
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		07/16/24 12:17	07/19/24 06:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*07/16/24 12:17*	*07/19/24 06:21*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/16/24 12:17	07/18/24 07:28	1
Ethylbenzene	ND		0.047		mg/Kg		07/16/24 12:17	07/18/24 07:28	1
Toluene	ND		0.047		mg/Kg		07/16/24 12:17	07/18/24 07:28	1
Xylenes, Total	ND		0.095		mg/Kg		07/16/24 12:17	07/18/24 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*07/16/24 12:17*	*07/18/24 07:28*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		07/17/24 14:29	07/22/24 12:47	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		07/17/24 14:29	07/22/24 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*76*		*62 - 134*	*07/17/24 14:29*	*07/22/24 12:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		07/17/24 15:56	07/17/24 23:22	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W10

Date Collected: 07/12/24 09:50
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		07/16/24 12:17	07/19/24 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*07/16/24 12:17*	*07/19/24 06:43*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		07/16/24 12:17	07/18/24 07:50	1
Ethylbenzene	ND		0.046		mg/Kg		07/16/24 12:17	07/18/24 07:50	1
Toluene	ND		0.046		mg/Kg		07/16/24 12:17	07/18/24 07:50	1
Xylenes, Total	ND		0.092		mg/Kg		07/16/24 12:17	07/18/24 07:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*07/16/24 12:17*	*07/18/24 07:50*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		9.9		mg/Kg		07/17/24 14:29	07/22/24 12:58	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/17/24 14:29	07/22/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*64*		*62 - 134*	*07/17/24 14:29*	*07/22/24 12:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		07/17/24 15:56	07/17/24 23:34	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W11

Date Collected: 07/12/24 09:52
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		07/16/24 12:17	07/19/24 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*07/16/24 12:17*	*07/19/24 07:05*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		07/16/24 12:17	07/18/24 08:11	1
Ethylbenzene	ND		0.047		mg/Kg		07/16/24 12:17	07/18/24 08:11	1
Toluene	ND		0.047		mg/Kg		07/16/24 12:17	07/18/24 08:11	1
Xylenes, Total	ND		0.094		mg/Kg		07/16/24 12:17	07/18/24 08:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*07/16/24 12:17*	*07/18/24 08:11*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**10**		9.8		mg/Kg		07/17/24 14:29	07/23/24 04:14	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/17/24 14:29	07/23/24 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*07/17/24 14:29*	*07/23/24 04:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**		60		mg/Kg		07/17/24 15:56	07/17/24 23:46	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W12

Date Collected: 07/12/24 09:54
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-12

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/16/24 12:17	07/19/24 07:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*07/16/24 12:17*	*07/19/24 07:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/16/24 12:17	07/18/24 08:33	1
Ethylbenzene	ND		0.049		mg/Kg		07/16/24 12:17	07/18/24 08:33	1
Toluene	ND		0.049		mg/Kg		07/16/24 12:17	07/18/24 08:33	1
Xylenes, Total	ND		0.099		mg/Kg		07/16/24 12:17	07/18/24 08:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*07/16/24 12:17*	*07/18/24 08:33*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		07/17/24 14:29	07/23/24 04:38	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		07/17/24 14:29	07/23/24 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*07/17/24 14:29*	*07/23/24 04:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		61		mg/Kg		07/17/24 15:56	07/17/24 23:59	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W13

Date Collected: 07/12/24 10:00
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-13

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		07/16/24 12:17	07/19/24 07:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*07/16/24 12:17*	*07/19/24 07:48*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/16/24 12:17	07/18/24 09:39	1
Ethylbenzene	ND		0.050		mg/Kg		07/16/24 12:17	07/18/24 09:39	1
Toluene	ND		0.050		mg/Kg		07/16/24 12:17	07/18/24 09:39	1
Xylenes, Total	ND		0.099		mg/Kg		07/16/24 12:17	07/18/24 09:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*07/16/24 12:17*	*07/18/24 09:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		07/17/24 14:29	07/23/24 05:02	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/17/24 14:29	07/23/24 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*07/17/24 14:29*	*07/23/24 05:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**360**	**F2**	60		mg/Kg		07/17/24 15:56	07/18/24 00:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W14

Date Collected: 07/12/24 10:02
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/16/24 12:17	07/19/24 08:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*07/16/24 12:17*	*07/19/24 08:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/16/24 12:17	07/18/24 10:01	1
Ethylbenzene	ND		0.049		mg/Kg		07/16/24 12:17	07/18/24 10:01	1
Toluene	ND		0.049		mg/Kg		07/16/24 12:17	07/18/24 10:01	1
Xylenes, Total	ND		0.097		mg/Kg		07/16/24 12:17	07/18/24 10:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*07/16/24 12:17*	*07/18/24 10:01*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		07/17/24 14:29	07/23/24 05:27	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		07/17/24 14:29	07/23/24 05:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*07/17/24 14:29*	*07/23/24 05:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		07/17/24 15:56	07/18/24 00:48	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W15

Date Collected: 07/12/24 10:04
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-15

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/16/24 12:17	07/19/24 08:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*07/16/24 12:17*	*07/19/24 08:32*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/16/24 12:17	07/18/24 10:22	1
Ethylbenzene	ND		0.049		mg/Kg		07/16/24 12:17	07/18/24 10:22	1
Toluene	ND		0.049		mg/Kg		07/16/24 12:17	07/18/24 10:22	1
Xylenes, Total	ND		0.098		mg/Kg		07/16/24 12:17	07/18/24 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*07/16/24 12:17*	*07/18/24 10:22*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		07/17/24 14:29	07/23/24 05:51	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		07/17/24 14:29	07/23/24 05:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*07/17/24 14:29*	*07/23/24 05:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		60		mg/Kg		07/17/24 15:56	07/18/24 01:00	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W16

Date Collected: 07/12/24 10:06
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-16

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/16/24 12:17	07/19/24 08:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*07/16/24 12:17*	*07/19/24 08:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/16/24 12:17	07/18/24 10:44	1
Ethylbenzene	ND		0.049		mg/Kg		07/16/24 12:17	07/18/24 10:44	1
Toluene	ND		0.049		mg/Kg		07/16/24 12:17	07/18/24 10:44	1
Xylenes, Total	ND		0.097		mg/Kg		07/16/24 12:17	07/18/24 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*07/16/24 12:17*	*07/18/24 10:44*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		07/17/24 14:29	07/23/24 06:14	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		07/17/24 14:29	07/23/24 06:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*55*	*S1-*	*62 - 134*	*07/17/24 14:29*	*07/23/24 06:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		60		mg/Kg		07/17/24 15:56	07/18/24 02:02	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W17

Date Collected: 07/12/24 10:08
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-17

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		07/17/24 09:20	07/18/24 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*07/17/24 09:20*	*07/18/24 13:07*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/17/24 09:20	07/18/24 13:07	1
Ethylbenzene	ND		0.050		mg/Kg		07/17/24 09:20	07/18/24 13:07	1
Toluene	ND		0.050		mg/Kg		07/17/24 09:20	07/18/24 13:07	1
Xylenes, Total	ND		0.10		mg/Kg		07/17/24 09:20	07/18/24 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*07/17/24 09:20*	*07/18/24 13:07*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**10**		9.1		mg/Kg		07/17/24 16:31	07/19/24 10:20	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		07/17/24 16:31	07/19/24 10:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*07/17/24 16:31*	*07/19/24 10:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95**		60		mg/Kg		07/17/24 15:56	07/18/24 02:15	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W18

Date Collected: 07/12/24 10:12
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-18

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		07/17/24 09:20	07/18/24 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*07/17/24 09:20*	*07/18/24 14:18*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/17/24 09:20	07/18/24 14:18	1
Ethylbenzene	ND		0.050		mg/Kg		07/17/24 09:20	07/18/24 14:18	1
Toluene	ND		0.050		mg/Kg		07/17/24 09:20	07/18/24 14:18	1
Xylenes, Total	ND		0.10		mg/Kg		07/17/24 09:20	07/18/24 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*07/17/24 09:20*	*07/18/24 14:18*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		9.5		mg/Kg		07/17/24 16:31	07/18/24 12:38	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		07/17/24 16:31	07/18/24 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*07/17/24 16:31*	*07/18/24 12:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		60		mg/Kg		07/17/24 15:56	07/18/24 02:27	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W19

Date Collected: 07/12/24 10:20
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-19

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		07/17/24 09:20	07/18/24 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*07/17/24 09:20*	*07/18/24 15:30*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/17/24 09:20	07/18/24 15:30	1
Ethylbenzene	ND		0.050		mg/Kg		07/17/24 09:20	07/18/24 15:30	1
Toluene	ND		0.050		mg/Kg		07/17/24 09:20	07/18/24 15:30	1
Xylenes, Total	ND		0.10		mg/Kg		07/17/24 09:20	07/18/24 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*07/17/24 09:20*	*07/18/24 15:30*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		07/17/24 16:31	07/19/24 11:14	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/17/24 16:31	07/19/24 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*07/17/24 16:31*	*07/19/24 11:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		07/17/24 15:56	07/18/24 02:39	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W20

Date Collected: 07/12/24 10:24
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-20

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/17/24 09:20	07/18/24 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*07/17/24 09:20*	*07/18/24 15:53*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/17/24 09:20	07/18/24 15:53	1
Ethylbenzene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 15:53	1
Toluene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 15:53	1
Xylenes, Total	ND		0.098		mg/Kg		07/17/24 09:20	07/18/24 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*07/17/24 09:20*	*07/18/24 15:53*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		07/17/24 16:31	07/19/24 11:36	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		07/17/24 16:31	07/19/24 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*07/17/24 16:31*	*07/19/24 11:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		60		mg/Kg		07/17/24 15:56	07/18/24 02:52	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W21

Date Collected: 07/12/24 10:30
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-21

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		07/17/24 09:20	07/18/24 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*07/17/24 09:20*	*07/18/24 16:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/17/24 09:20	07/18/24 16:17	1
Ethylbenzene	ND		0.048		mg/Kg		07/17/24 09:20	07/18/24 16:17	1
Toluene	ND		0.048		mg/Kg		07/17/24 09:20	07/18/24 16:17	1
Xylenes, Total	ND		0.096		mg/Kg		07/17/24 09:20	07/18/24 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*07/17/24 09:20*	*07/18/24 16:17*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**22**		9.1		mg/Kg		07/17/24 16:31	07/19/24 11:58	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		07/17/24 16:31	07/19/24 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*07/17/24 16:31*	*07/19/24 11:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		60		mg/Kg		07/17/24 15:56	07/18/24 03:04	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B8

Date Collected: 07/12/24 11:30
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-22

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/17/24 09:20	07/18/24 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*07/17/24 09:20*	*07/18/24 16:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/17/24 09:20	07/18/24 16:41	1
Ethylbenzene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 16:41	1
Toluene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 16:41	1
Xylenes, Total	ND		0.097		mg/Kg		07/17/24 09:20	07/18/24 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*07/17/24 09:20*	*07/18/24 16:41*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		07/17/24 16:31	07/19/24 12:20	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		07/17/24 16:31	07/19/24 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*128*		*62 - 134*	*07/17/24 16:31*	*07/19/24 12:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		60		mg/Kg		07/17/24 15:56	07/18/24 03:16	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B9

Date Collected: 07/12/24 11:32
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-23

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		07/17/24 09:20	07/18/24 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*07/17/24 09:20*	*07/18/24 17:05*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/17/24 09:20	07/18/24 17:05	1
Ethylbenzene	ND		0.050		mg/Kg		07/17/24 09:20	07/18/24 17:05	1
Toluene	ND		0.050		mg/Kg		07/17/24 09:20	07/18/24 17:05	1
Xylenes, Total	ND		0.10		mg/Kg		07/17/24 09:20	07/18/24 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*07/17/24 09:20*	*07/18/24 17:05*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**10**		9.8		mg/Kg		07/17/24 16:31	07/19/24 12:42	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/17/24 16:31	07/19/24 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*	*07/17/24 16:31*	*07/19/24 12:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60		mg/Kg		07/17/24 15:56	07/18/24 03:29	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B10

Date Collected: 07/12/24 11:34
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-24

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/17/24 09:20	07/18/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*07/17/24 09:20*	*07/18/24 17:28*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/17/24 09:20	07/18/24 17:28	1
Ethylbenzene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 17:28	1
Toluene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 17:28	1
Xylenes, Total	ND		0.098		mg/Kg		07/17/24 09:20	07/18/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*07/17/24 09:20*	*07/18/24 17:28*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		07/17/24 16:31	07/19/24 13:04	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		07/17/24 16:31	07/19/24 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*	*07/17/24 16:31*	*07/19/24 13:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		60		mg/Kg		07/17/24 15:56	07/18/24 04:06	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B11

Date Collected: 07/12/24 11:40
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-25

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/17/24 09:20	07/18/24 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*07/17/24 09:20*	*07/18/24 17:52*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/17/24 09:20	07/18/24 17:52	1
Ethylbenzene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 17:52	1
Toluene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 17:52	1
Xylenes, Total	ND		0.097		mg/Kg		07/17/24 09:20	07/18/24 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*07/17/24 09:20*	*07/18/24 17:52*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		07/17/24 16:31	07/19/24 13:36	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/17/24 16:31	07/19/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*07/17/24 16:31*	*07/19/24 13:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		60		mg/Kg		07/17/24 15:56	07/18/24 04:18	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B12

Date Collected: 07/12/24 11:42
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-26

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/17/24 09:20	07/18/24 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*07/17/24 09:20*	*07/18/24 19:03*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/17/24 09:20	07/18/24 19:03	1
Ethylbenzene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 19:03	1
Toluene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 19:03	1
Xylenes, Total	ND		0.098		mg/Kg		07/17/24 09:20	07/18/24 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*07/17/24 09:20*	*07/18/24 19:03*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7		mg/Kg		07/17/24 16:31	07/19/24 13:58	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		07/17/24 16:31	07/19/24 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*07/17/24 16:31*	*07/19/24 13:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60		mg/Kg		07/17/24 15:56	07/18/24 04:31	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B17

Date Collected: 07/12/24 11:44
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-27

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/17/24 09:20	07/18/24 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*07/17/24 09:20*	*07/18/24 19:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/17/24 09:20	07/18/24 19:27	1
Ethylbenzene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 19:27	1
Toluene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 19:27	1
Xylenes, Total	ND		0.098		mg/Kg		07/17/24 09:20	07/18/24 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*07/17/24 09:20*	*07/18/24 19:27*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		07/17/24 16:31	07/19/24 14:20	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/17/24 16:31	07/19/24 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*07/17/24 16:31*	*07/19/24 14:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		60		mg/Kg		07/18/24 08:22	07/18/24 09:49	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B22

Date Collected: 07/12/24 11:46
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-28

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/17/24 09:20	07/18/24 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*07/17/24 09:20*	*07/18/24 19:50*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/17/24 09:20	07/18/24 19:50	1
Ethylbenzene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 19:50	1
Toluene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 19:50	1
Xylenes, Total	ND		0.098		mg/Kg		07/17/24 09:20	07/18/24 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*07/17/24 09:20*	*07/18/24 19:50*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		07/17/24 16:31	07/19/24 14:42	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/17/24 16:31	07/19/24 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*07/17/24 16:31*	*07/19/24 14:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		60		mg/Kg		07/18/24 08:22	07/18/24 10:26	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B24

Date Collected: 07/12/24 11:50
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-29

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		07/17/24 09:20	07/18/24 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*07/17/24 09:20*	*07/18/24 20:14*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/17/24 09:20	07/18/24 20:14	1
Ethylbenzene	ND		0.047		mg/Kg		07/17/24 09:20	07/18/24 20:14	1
Toluene	ND		0.047		mg/Kg		07/17/24 09:20	07/18/24 20:14	1
Xylenes, Total	ND		0.095		mg/Kg		07/17/24 09:20	07/18/24 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*07/17/24 09:20*	*07/18/24 20:14*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.8**		8.6		mg/Kg		07/17/24 16:31	07/19/24 15:04	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		07/17/24 16:31	07/19/24 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*07/17/24 16:31*	*07/19/24 15:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69**		60		mg/Kg		07/18/24 08:22	07/18/24 11:30	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B27

Date Collected: 07/12/24 11:52
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-30

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		07/17/24 09:20	07/18/24 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*07/17/24 09:20*	*07/18/24 20:37*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/17/24 09:20	07/18/24 20:37	1
Ethylbenzene	ND		0.048		mg/Kg		07/17/24 09:20	07/18/24 20:37	1
Toluene	ND		0.048		mg/Kg		07/17/24 09:20	07/18/24 20:37	1
Xylenes, Total	ND		0.097		mg/Kg		07/17/24 09:20	07/18/24 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*07/17/24 09:20*	*07/18/24 20:37*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		07/17/24 16:31	07/19/24 15:26	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/17/24 16:31	07/19/24 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*07/17/24 16:31*	*07/19/24 15:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**370**		60		mg/Kg		07/18/24 08:22	07/18/24 11:43	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B28

Date Collected: 07/12/24 11:54
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-31

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		07/17/24 09:20	07/18/24 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*07/17/24 09:20*	*07/18/24 21:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/17/24 09:20	07/18/24 21:01	1
Ethylbenzene	ND		0.048		mg/Kg		07/17/24 09:20	07/18/24 21:01	1
Toluene	ND		0.048		mg/Kg		07/17/24 09:20	07/18/24 21:01	1
Xylenes, Total	ND		0.097		mg/Kg		07/17/24 09:20	07/18/24 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*07/17/24 09:20*	*07/18/24 21:01*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6		mg/Kg		07/17/24 16:31	07/19/24 15:48	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		07/17/24 16:31	07/19/24 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*07/17/24 16:31*	*07/19/24 15:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		60		mg/Kg		07/18/24 08:22	07/18/24 11:55	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B31

Date Collected: 07/12/24 11:56
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-32

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		07/17/24 09:20	07/18/24 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*07/17/24 09:20*	*07/18/24 21:25*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		07/17/24 09:20	07/18/24 21:25	1
Ethylbenzene	ND		0.046		mg/Kg		07/17/24 09:20	07/18/24 21:25	1
Toluene	ND		0.046		mg/Kg		07/17/24 09:20	07/18/24 21:25	1
Xylenes, Total	ND		0.092		mg/Kg		07/17/24 09:20	07/18/24 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*07/17/24 09:20*	*07/18/24 21:25*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		07/17/24 16:31	07/19/24 16:10	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		07/17/24 16:31	07/19/24 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*07/17/24 16:31*	*07/19/24 16:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		60		mg/Kg		07/18/24 08:22	07/18/24 12:07	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: PS-17A

Date Collected: 07/12/24 12:00
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-33

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		07/17/24 09:20	07/18/24 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*07/17/24 09:20*	*07/18/24 21:48*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/17/24 09:20	07/18/24 21:48	1
Ethylbenzene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 21:48	1
Toluene	ND		0.049		mg/Kg		07/17/24 09:20	07/18/24 21:48	1
Xylenes, Total	ND		0.098		mg/Kg		07/17/24 09:20	07/18/24 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*07/17/24 09:20*	*07/18/24 21:48*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		07/17/24 16:31	07/19/24 16:32	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		07/17/24 16:31	07/19/24 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*07/17/24 16:31*	*07/19/24 16:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		60		mg/Kg		07/18/24 08:22	07/18/24 12:20	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-8499/1-A
Matrix: Solid
Analysis Batch: 8769

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8499

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		07/16/24 12:17	07/19/24 00:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*07/16/24 12:17*	*07/19/24 00:55*	*1*

Lab Sample ID: LCS 885-8499/2-A
Matrix: Solid
Analysis Batch: 8769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8499

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.0		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*203*	*S1+*	*35 - 166*

Lab Sample ID: MB 885-8549/1-A
Matrix: Solid
Analysis Batch: 8761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8549

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		07/17/24 09:20	07/18/24 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*07/17/24 09:20*	*07/18/24 12:20*	*1*

Lab Sample ID: LCS 885-8549/2-A
Matrix: Solid
Analysis Batch: 8761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8549

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.2		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*201*	*S1+*	*35 - 166*

Lab Sample ID: 885-8018-17 MS
Matrix: Solid
Analysis Batch: 8761

Client Sample ID: P2-W17
Prep Type: Total/NA
Prep Batch: 8549

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	24.1		mg/Kg		97	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-8018-17 MS
Matrix: Solid
Analysis Batch: 8761

Client Sample ID: P2-W17
Prep Type: Total/NA
Prep Batch: 8549

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*209*	*S1+*	*35 - 166*

Lab Sample ID: 885-8018-17 MSD
Matrix: Solid
Analysis Batch: 8761

Client Sample ID: P2-W17
Prep Type: Total/NA
Prep Batch: 8549

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	23.8		mg/Kg		95	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*211*	*S1+*	*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-8499/1-A
Matrix: Solid
Analysis Batch: 8678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8499

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/16/24 12:17	07/18/24 00:56	1
Ethylbenzene	ND		0.050		mg/Kg		07/16/24 12:17	07/18/24 00:56	1
Toluene	ND		0.050		mg/Kg		07/16/24 12:17	07/18/24 00:56	1
Xylenes, Total	ND		0.10		mg/Kg		07/16/24 12:17	07/18/24 00:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*07/16/24 12:17*	*07/18/24 00:56*	*1*

Lab Sample ID: LCS 885-8499/3-A
Matrix: Solid
Analysis Batch: 8678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8499

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.887		mg/Kg		89	70 - 130		
Ethylbenzene			1.00	0.896		mg/Kg		90	70 - 130		
Toluene			1.00	0.885		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			2.00	1.79		mg/Kg		90	70 - 130		
o-Xylene			1.00	0.902		mg/Kg		90	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*

Lab Sample ID: MB 885-8549/1-A
Matrix: Solid
Analysis Batch: 8763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8549

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/17/24 09:20	07/18/24 12:20	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-8549/1-A
Matrix: Solid
Analysis Batch: 8763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8549

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.050		mg/Kg		07/17/24 09:20	07/18/24 12:20	1
Toluene	ND		0.050		mg/Kg		07/17/24 09:20	07/18/24 12:20	1
Xylenes, Total	ND		0.10		mg/Kg		07/17/24 09:20	07/18/24 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*07/17/24 09:20*	*07/18/24 12:20*	*1*

Lab Sample ID: LCS 885-8549/3-A
Matrix: Solid
Analysis Batch: 8763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8549

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.891		mg/Kg		89	70 - 130		
Ethylbenzene			1.00	0.852		mg/Kg		85	70 - 130		
Toluene			1.00	0.848		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene			2.00	1.74		mg/Kg		87	70 - 130		
o-Xylene			1.00	0.842		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*

Lab Sample ID: 885-8018-18 MS
Matrix: Solid
Analysis Batch: 8763

Client Sample ID: P2-W18
Prep Type: Total/NA
Prep Batch: 8549

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.998	0.917		mg/Kg		92	70 - 130		
Ethylbenzene	ND		0.998	0.879		mg/Kg		88	70 - 130		
Toluene	ND		0.998	0.881		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene	ND		2.00	1.78		mg/Kg		88	70 - 130		
o-Xylene	ND		0.998	0.871		mg/Kg		87	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*

Lab Sample ID: 885-8018-18 MSD
Matrix: Solid
Analysis Batch: 8763

Client Sample ID: P2-W18
Prep Type: Total/NA
Prep Batch: 8549

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.994	0.915		mg/Kg		92	70 - 130	0	20
Ethylbenzene	ND		0.994	0.899		mg/Kg		90	70 - 130	2	20
Toluene	ND		0.994	0.888		mg/Kg		88	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.99	1.82		mg/Kg		90	70 - 130	2	20
o-Xylene	ND		0.994	0.888		mg/Kg		89	70 - 130	2	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-8018-18 MSD
Matrix: Solid
Analysis Batch: 8763

Client Sample ID: P2-W18
Prep Type: Total/NA
Prep Batch: 8549

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: 885-8018-16 MS
Matrix: Solid
Analysis Batch: 8878

Client Sample ID: P2-W16
Prep Type: Total/NA
Prep Batch: 8595

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		48.0	47.4		mg/Kg		99	44 - 136		

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*

Lab Sample ID: 885-8018-16 MSD
Matrix: Solid
Analysis Batch: 8878

Client Sample ID: P2-W16
Prep Type: Total/NA
Prep Batch: 8595

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		48.1	49.7		mg/Kg		103	44 - 136	5	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	*59*	*S1-*	*62 - 134*

Lab Sample ID: MB 885-8606/1-A
Matrix: Solid
Analysis Batch: 8751

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8606

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		07/17/24 16:31	07/19/24 09:58	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		07/17/24 16:31	07/19/24 09:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*117*		*62 - 134*	*07/17/24 16:31*	*07/19/24 09:58*	*1*

Lab Sample ID: LCS 885-8606/2-A
Matrix: Solid
Analysis Batch: 8751

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8606

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	55.1		mg/Kg		110	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*119*		*62 - 134*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-8592/1-A
Matrix: Solid
Analysis Batch: 8625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8592

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		07/17/24 13:50	07/17/24 21:27	1

Lab Sample ID: LCS 885-8592/2-A
Matrix: Solid
Analysis Batch: 8625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8592

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.5		mg/Kg		95	90 - 110		

Lab Sample ID: MB 885-8601/1-A
Matrix: Solid
Analysis Batch: 8619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8601

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		07/17/24 15:56	07/17/24 22:08	1

Lab Sample ID: LCS 885-8601/2-A
Matrix: Solid
Analysis Batch: 8619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8601

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.9		mg/Kg		96	90 - 110		

Lab Sample ID: MB 885-8628/1-A
Matrix: Solid
Analysis Batch: 8749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8628

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		07/18/24 08:22	07/18/24 09:20	1

Lab Sample ID: LCS 885-8628/2-A
Matrix: Solid
Analysis Batch: 8749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8628

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.3		mg/Kg		94	90 - 110		

Lab Sample ID: 885-8018-27 MS
Matrix: Solid
Analysis Batch: 8749

Client Sample ID: P2-B17
Prep Type: Total/NA
Prep Batch: 8628

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	130		30.1	168	4	mg/Kg		127	50 - 150		

Lab Sample ID: 885-8018-27 MSD
Matrix: Solid
Analysis Batch: 8749

Client Sample ID: P2-B17
Prep Type: Total/NA
Prep Batch: 8628

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	130		29.8	186	4	mg/Kg		188	50 - 150	10	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-8018-28 MS
Matrix: Solid
Analysis Batch: 8749

Client Sample ID: P2-B22
Prep Type: Total/NA
Prep Batch: 8628

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	280		29.9	267	4	mg/Kg		-43	50 - 150

Lab Sample ID: 885-8018-28 MSD
Matrix: Solid
Analysis Batch: 8749

Client Sample ID: P2-B22
Prep Type: Total/NA
Prep Batch: 8628

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	280		30.3	291	4	mg/Kg		37	50 - 150	9	20

Lab Sample ID: MB 885-8749/101
Matrix: Solid
Analysis Batch: 8749

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/Kg			07/18/24 22:37	1

Lab Sample ID: MRL 885-8749/100
Matrix: Solid
Analysis Batch: 8749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			0.500	0.523		mg/L		105	50 - 150

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

GC VOA

Prep Batch: 8499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-1	P2-W1	Total/NA	Solid	5030C	
885-8018-2	P2-W2	Total/NA	Solid	5030C	
885-8018-3	P2-W3	Total/NA	Solid	5030C	
885-8018-4	P2-W4	Total/NA	Solid	5030C	
885-8018-5	P2-W5	Total/NA	Solid	5030C	
885-8018-6	P2-W6	Total/NA	Solid	5030C	
885-8018-7	P2-W7	Total/NA	Solid	5030C	
885-8018-8	P2-W8	Total/NA	Solid	5030C	
885-8018-9	P2-W9	Total/NA	Solid	5030C	
885-8018-10	P2-W10	Total/NA	Solid	5030C	
885-8018-11	P2-W11	Total/NA	Solid	5030C	
885-8018-12	P2-W12	Total/NA	Solid	5030C	
885-8018-13	P2-W13	Total/NA	Solid	5030C	
885-8018-14	P2-W14	Total/NA	Solid	5030C	
885-8018-15	P2-W15	Total/NA	Solid	5030C	
885-8018-16	P2-W16	Total/NA	Solid	5030C	
MB 885-8499/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-8499/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-8499/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 8549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-17	P2-W17	Total/NA	Solid	5030C	
885-8018-18	P2-W18	Total/NA	Solid	5030C	
885-8018-19	P2-W19	Total/NA	Solid	5030C	
885-8018-20	P2-W20	Total/NA	Solid	5030C	
885-8018-21	P2-W21	Total/NA	Solid	5030C	
885-8018-22	P2-B8	Total/NA	Solid	5030C	
885-8018-23	P2-B9	Total/NA	Solid	5030C	
885-8018-24	P2-B10	Total/NA	Solid	5030C	
885-8018-25	P2-B11	Total/NA	Solid	5030C	
885-8018-26	P2-B12	Total/NA	Solid	5030C	
885-8018-27	P2-B17	Total/NA	Solid	5030C	
885-8018-28	P2-B22	Total/NA	Solid	5030C	
885-8018-29	P2-B24	Total/NA	Solid	5030C	
885-8018-30	P2-B27	Total/NA	Solid	5030C	
885-8018-31	P2-B28	Total/NA	Solid	5030C	
885-8018-32	P2-B31	Total/NA	Solid	5030C	
885-8018-33	PS-17A	Total/NA	Solid	5030C	
MB 885-8549/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-8549/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-8549/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-8018-17 MS	P2-W17	Total/NA	Solid	5030C	
885-8018-17 MSD	P2-W17	Total/NA	Solid	5030C	
885-8018-18 MS	P2-W18	Total/NA	Solid	5030C	
885-8018-18 MSD	P2-W18	Total/NA	Solid	5030C	

Analysis Batch: 8678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-1	P2-W1	Total/NA	Solid	8021B	8499
885-8018-2	P2-W2	Total/NA	Solid	8021B	8499

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

GC VOA (Continued)

Analysis Batch: 8678 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-3	P2-W3	Total/NA	Solid	8021B	8499
885-8018-4	P2-W4	Total/NA	Solid	8021B	8499
885-8018-5	P2-W5	Total/NA	Solid	8021B	8499
885-8018-6	P2-W6	Total/NA	Solid	8021B	8499
885-8018-7	P2-W7	Total/NA	Solid	8021B	8499
885-8018-8	P2-W8	Total/NA	Solid	8021B	8499
885-8018-9	P2-W9	Total/NA	Solid	8021B	8499
885-8018-10	P2-W10	Total/NA	Solid	8021B	8499
885-8018-11	P2-W11	Total/NA	Solid	8021B	8499
885-8018-12	P2-W12	Total/NA	Solid	8021B	8499
885-8018-13	P2-W13	Total/NA	Solid	8021B	8499
885-8018-14	P2-W14	Total/NA	Solid	8021B	8499
885-8018-15	P2-W15	Total/NA	Solid	8021B	8499
885-8018-16	P2-W16	Total/NA	Solid	8021B	8499
MB 885-8499/1-A	Method Blank	Total/NA	Solid	8021B	8499
LCS 885-8499/3-A	Lab Control Sample	Total/NA	Solid	8021B	8499

Analysis Batch: 8761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-17	P2-W17	Total/NA	Solid	8015M/D	8549
885-8018-18	P2-W18	Total/NA	Solid	8015M/D	8549
885-8018-19	P2-W19	Total/NA	Solid	8015M/D	8549
885-8018-20	P2-W20	Total/NA	Solid	8015M/D	8549
885-8018-21	P2-W21	Total/NA	Solid	8015M/D	8549
885-8018-22	P2-B8	Total/NA	Solid	8015M/D	8549
885-8018-23	P2-B9	Total/NA	Solid	8015M/D	8549
885-8018-24	P2-B10	Total/NA	Solid	8015M/D	8549
885-8018-25	P2-B11	Total/NA	Solid	8015M/D	8549
885-8018-26	P2-B12	Total/NA	Solid	8015M/D	8549
885-8018-27	P2-B17	Total/NA	Solid	8015M/D	8549
885-8018-28	P2-B22	Total/NA	Solid	8015M/D	8549
885-8018-29	P2-B24	Total/NA	Solid	8015M/D	8549
885-8018-30	P2-B27	Total/NA	Solid	8015M/D	8549
885-8018-31	P2-B28	Total/NA	Solid	8015M/D	8549
885-8018-32	P2-B31	Total/NA	Solid	8015M/D	8549
885-8018-33	PS-17A	Total/NA	Solid	8015M/D	8549
MB 885-8549/1-A	Method Blank	Total/NA	Solid	8015M/D	8549
LCS 885-8549/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	8549
885-8018-17 MS	P2-W17	Total/NA	Solid	8015M/D	8549
885-8018-17 MSD	P2-W17	Total/NA	Solid	8015M/D	8549

Analysis Batch: 8763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-17	P2-W17	Total/NA	Solid	8021B	8549
885-8018-18	P2-W18	Total/NA	Solid	8021B	8549
885-8018-19	P2-W19	Total/NA	Solid	8021B	8549
885-8018-20	P2-W20	Total/NA	Solid	8021B	8549
885-8018-21	P2-W21	Total/NA	Solid	8021B	8549
885-8018-22	P2-B8	Total/NA	Solid	8021B	8549
885-8018-23	P2-B9	Total/NA	Solid	8021B	8549
885-8018-24	P2-B10	Total/NA	Solid	8021B	8549

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

GC VOA (Continued)

Analysis Batch: 8763 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-25	P2-B11	Total/NA	Solid	8021B	8549
885-8018-26	P2-B12	Total/NA	Solid	8021B	8549
885-8018-27	P2-B17	Total/NA	Solid	8021B	8549
885-8018-28	P2-B22	Total/NA	Solid	8021B	8549
885-8018-29	P2-B24	Total/NA	Solid	8021B	8549
885-8018-30	P2-B27	Total/NA	Solid	8021B	8549
885-8018-31	P2-B28	Total/NA	Solid	8021B	8549
885-8018-32	P2-B31	Total/NA	Solid	8021B	8549
885-8018-33	PS-17A	Total/NA	Solid	8021B	8549
MB 885-8549/1-A	Method Blank	Total/NA	Solid	8021B	8549
LCS 885-8549/3-A	Lab Control Sample	Total/NA	Solid	8021B	8549
885-8018-18 MS	P2-W18	Total/NA	Solid	8021B	8549
885-8018-18 MSD	P2-W18	Total/NA	Solid	8021B	8549

Analysis Batch: 8769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-1	P2-W1	Total/NA	Solid	8015M/D	8499
885-8018-2	P2-W2	Total/NA	Solid	8015M/D	8499
885-8018-3	P2-W3	Total/NA	Solid	8015M/D	8499
885-8018-4	P2-W4	Total/NA	Solid	8015M/D	8499
885-8018-5	P2-W5	Total/NA	Solid	8015M/D	8499
885-8018-6	P2-W6	Total/NA	Solid	8015M/D	8499
885-8018-7	P2-W7	Total/NA	Solid	8015M/D	8499
885-8018-8	P2-W8	Total/NA	Solid	8015M/D	8499
885-8018-9	P2-W9	Total/NA	Solid	8015M/D	8499
885-8018-10	P2-W10	Total/NA	Solid	8015M/D	8499
885-8018-11	P2-W11	Total/NA	Solid	8015M/D	8499
885-8018-12	P2-W12	Total/NA	Solid	8015M/D	8499
885-8018-13	P2-W13	Total/NA	Solid	8015M/D	8499
885-8018-14	P2-W14	Total/NA	Solid	8015M/D	8499
885-8018-15	P2-W15	Total/NA	Solid	8015M/D	8499
885-8018-16	P2-W16	Total/NA	Solid	8015M/D	8499
MB 885-8499/1-A	Method Blank	Total/NA	Solid	8015M/D	8499
LCS 885-8499/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	8499

GC Semi VOA

Prep Batch: 8595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-1	P2-W1	Total/NA	Solid	SHAKE	
885-8018-2	P2-W2	Total/NA	Solid	SHAKE	
885-8018-3	P2-W3	Total/NA	Solid	SHAKE	
885-8018-4	P2-W4	Total/NA	Solid	SHAKE	
885-8018-5	P2-W5	Total/NA	Solid	SHAKE	
885-8018-6	P2-W6	Total/NA	Solid	SHAKE	
885-8018-7	P2-W7	Total/NA	Solid	SHAKE	
885-8018-8	P2-W8	Total/NA	Solid	SHAKE	
885-8018-9	P2-W9	Total/NA	Solid	SHAKE	
885-8018-10	P2-W10	Total/NA	Solid	SHAKE	
885-8018-11	P2-W11	Total/NA	Solid	SHAKE	
885-8018-12	P2-W12	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

GC Semi VOA (Continued)

Prep Batch: 8595 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-13	P2-W13	Total/NA	Solid	SHAKE	
885-8018-14	P2-W14	Total/NA	Solid	SHAKE	
885-8018-15	P2-W15	Total/NA	Solid	SHAKE	
885-8018-16	P2-W16	Total/NA	Solid	SHAKE	
885-8018-16 MS	P2-W16	Total/NA	Solid	SHAKE	
885-8018-16 MSD	P2-W16	Total/NA	Solid	SHAKE	

Prep Batch: 8606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-17	P2-W17	Total/NA	Solid	SHAKE	
885-8018-18	P2-W18	Total/NA	Solid	SHAKE	
885-8018-19	P2-W19	Total/NA	Solid	SHAKE	
885-8018-20	P2-W20	Total/NA	Solid	SHAKE	
885-8018-21	P2-W21	Total/NA	Solid	SHAKE	
885-8018-22	P2-B8	Total/NA	Solid	SHAKE	
885-8018-23	P2-B9	Total/NA	Solid	SHAKE	
885-8018-24	P2-B10	Total/NA	Solid	SHAKE	
885-8018-25	P2-B11	Total/NA	Solid	SHAKE	
885-8018-26	P2-B12	Total/NA	Solid	SHAKE	
885-8018-27	P2-B17	Total/NA	Solid	SHAKE	
885-8018-28	P2-B22	Total/NA	Solid	SHAKE	
885-8018-29	P2-B24	Total/NA	Solid	SHAKE	
885-8018-30	P2-B27	Total/NA	Solid	SHAKE	
885-8018-31	P2-B28	Total/NA	Solid	SHAKE	
885-8018-32	P2-B31	Total/NA	Solid	SHAKE	
885-8018-33	PS-17A	Total/NA	Solid	SHAKE	
MB 885-8606/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-8606/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 8655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-18	P2-W18	Total/NA	Solid	8015M/D	8606

Analysis Batch: 8751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-17	P2-W17	Total/NA	Solid	8015M/D	8606
885-8018-19	P2-W19	Total/NA	Solid	8015M/D	8606
885-8018-20	P2-W20	Total/NA	Solid	8015M/D	8606
885-8018-21	P2-W21	Total/NA	Solid	8015M/D	8606
885-8018-22	P2-B8	Total/NA	Solid	8015M/D	8606
885-8018-23	P2-B9	Total/NA	Solid	8015M/D	8606
885-8018-24	P2-B10	Total/NA	Solid	8015M/D	8606
885-8018-25	P2-B11	Total/NA	Solid	8015M/D	8606
885-8018-26	P2-B12	Total/NA	Solid	8015M/D	8606
885-8018-27	P2-B17	Total/NA	Solid	8015M/D	8606
885-8018-28	P2-B22	Total/NA	Solid	8015M/D	8606
885-8018-29	P2-B24	Total/NA	Solid	8015M/D	8606
885-8018-30	P2-B27	Total/NA	Solid	8015M/D	8606
885-8018-31	P2-B28	Total/NA	Solid	8015M/D	8606
885-8018-32	P2-B31	Total/NA	Solid	8015M/D	8606
885-8018-33	PS-17A	Total/NA	Solid	8015M/D	8606

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

GC Semi VOA (Continued)

Analysis Batch: 8751 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-8606/1-A	Method Blank	Total/NA	Solid	8015M/D	8606
LCS 885-8606/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	8606

Analysis Batch: 8875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-1	P2-W1	Total/NA	Solid	8015M/D	8595
885-8018-2	P2-W2	Total/NA	Solid	8015M/D	8595
885-8018-3	P2-W3	Total/NA	Solid	8015M/D	8595
885-8018-4	P2-W4	Total/NA	Solid	8015M/D	8595
885-8018-6	P2-W6	Total/NA	Solid	8015M/D	8595
885-8018-7	P2-W7	Total/NA	Solid	8015M/D	8595
885-8018-9	P2-W9	Total/NA	Solid	8015M/D	8595
885-8018-10	P2-W10	Total/NA	Solid	8015M/D	8595

Analysis Batch: 8878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-11	P2-W11	Total/NA	Solid	8015M/D	8595
885-8018-12	P2-W12	Total/NA	Solid	8015M/D	8595
885-8018-13	P2-W13	Total/NA	Solid	8015M/D	8595
885-8018-14	P2-W14	Total/NA	Solid	8015M/D	8595
885-8018-15	P2-W15	Total/NA	Solid	8015M/D	8595
885-8018-16	P2-W16	Total/NA	Solid	8015M/D	8595
885-8018-16 MS	P2-W16	Total/NA	Solid	8015M/D	8595
885-8018-16 MSD	P2-W16	Total/NA	Solid	8015M/D	8595

Analysis Batch: 8986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-5	P2-W5	Total/NA	Solid	8015M/D	8595
885-8018-8	P2-W8	Total/NA	Solid	8015M/D	8595

HPLC/IC

Prep Batch: 8592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-1	P2-W1	Total/NA	Solid	300_Prep	
885-8018-2	P2-W2	Total/NA	Solid	300_Prep	
885-8018-3	P2-W3	Total/NA	Solid	300_Prep	
885-8018-4	P2-W4	Total/NA	Solid	300_Prep	
885-8018-5	P2-W5	Total/NA	Solid	300_Prep	
885-8018-6	P2-W6	Total/NA	Solid	300_Prep	
885-8018-7	P2-W7	Total/NA	Solid	300_Prep	
MB 885-8592/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-8592/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 8601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-8	P2-W8	Total/NA	Solid	300_Prep	
885-8018-9	P2-W9	Total/NA	Solid	300_Prep	
885-8018-10	P2-W10	Total/NA	Solid	300_Prep	
885-8018-11	P2-W11	Total/NA	Solid	300_Prep	
885-8018-12	P2-W12	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

HPLC/IC (Continued)

Prep Batch: 8601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-13	P2-W13	Total/NA	Solid	300_Prep	
885-8018-14	P2-W14	Total/NA	Solid	300_Prep	
885-8018-15	P2-W15	Total/NA	Solid	300_Prep	
885-8018-16	P2-W16	Total/NA	Solid	300_Prep	
885-8018-17	P2-W17	Total/NA	Solid	300_Prep	
885-8018-18	P2-W18	Total/NA	Solid	300_Prep	
885-8018-19	P2-W19	Total/NA	Solid	300_Prep	
885-8018-20	P2-W20	Total/NA	Solid	300_Prep	
885-8018-21	P2-W21	Total/NA	Solid	300_Prep	
885-8018-22	P2-B8	Total/NA	Solid	300_Prep	
885-8018-23	P2-B9	Total/NA	Solid	300_Prep	
885-8018-24	P2-B10	Total/NA	Solid	300_Prep	
885-8018-25	P2-B11	Total/NA	Solid	300_Prep	
885-8018-26	P2-B12	Total/NA	Solid	300_Prep	
MB 885-8601/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-8601/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 8619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-8	P2-W8	Total/NA	Solid	300.0	8601
885-8018-9	P2-W9	Total/NA	Solid	300.0	8601
885-8018-10	P2-W10	Total/NA	Solid	300.0	8601
885-8018-11	P2-W11	Total/NA	Solid	300.0	8601
885-8018-12	P2-W12	Total/NA	Solid	300.0	8601
885-8018-13	P2-W13	Total/NA	Solid	300.0	8601
885-8018-14	P2-W14	Total/NA	Solid	300.0	8601
885-8018-15	P2-W15	Total/NA	Solid	300.0	8601
885-8018-16	P2-W16	Total/NA	Solid	300.0	8601
885-8018-17	P2-W17	Total/NA	Solid	300.0	8601
885-8018-18	P2-W18	Total/NA	Solid	300.0	8601
885-8018-19	P2-W19	Total/NA	Solid	300.0	8601
885-8018-20	P2-W20	Total/NA	Solid	300.0	8601
885-8018-21	P2-W21	Total/NA	Solid	300.0	8601
885-8018-22	P2-B8	Total/NA	Solid	300.0	8601
885-8018-23	P2-B9	Total/NA	Solid	300.0	8601
885-8018-24	P2-B10	Total/NA	Solid	300.0	8601
885-8018-25	P2-B11	Total/NA	Solid	300.0	8601
885-8018-26	P2-B12	Total/NA	Solid	300.0	8601
MB 885-8601/1-A	Method Blank	Total/NA	Solid	300.0	8601
LCS 885-8601/2-A	Lab Control Sample	Total/NA	Solid	300.0	8601

Analysis Batch: 8625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-1	P2-W1	Total/NA	Solid	300.0	8592
885-8018-2	P2-W2	Total/NA	Solid	300.0	8592
885-8018-3	P2-W3	Total/NA	Solid	300.0	8592
885-8018-4	P2-W4	Total/NA	Solid	300.0	8592
885-8018-5	P2-W5	Total/NA	Solid	300.0	8592
885-8018-6	P2-W6	Total/NA	Solid	300.0	8592
885-8018-7	P2-W7	Total/NA	Solid	300.0	8592
MB 885-8592/1-A	Method Blank	Total/NA	Solid	300.0	8592

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

HPLC/IC (Continued)

Analysis Batch: 8625 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-8592/2-A	Lab Control Sample	Total/NA	Solid	300.0	8592

Prep Batch: 8628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-27	P2-B17	Total/NA	Solid	300_Prep	
885-8018-28	P2-B22	Total/NA	Solid	300_Prep	
885-8018-29	P2-B24	Total/NA	Solid	300_Prep	
885-8018-30	P2-B27	Total/NA	Solid	300_Prep	
885-8018-31	P2-B28	Total/NA	Solid	300_Prep	
885-8018-32	P2-B31	Total/NA	Solid	300_Prep	
885-8018-33	PS-17A	Total/NA	Solid	300_Prep	
MB 885-8628/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-8628/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-8018-27 MS	P2-B17	Total/NA	Solid	300_Prep	
885-8018-27 MSD	P2-B17	Total/NA	Solid	300_Prep	
885-8018-28 MS	P2-B22	Total/NA	Solid	300_Prep	
885-8018-28 MSD	P2-B22	Total/NA	Solid	300_Prep	

Analysis Batch: 8749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8018-27	P2-B17	Total/NA	Solid	300.0	8628
885-8018-28	P2-B22	Total/NA	Solid	300.0	8628
885-8018-29	P2-B24	Total/NA	Solid	300.0	8628
885-8018-30	P2-B27	Total/NA	Solid	300.0	8628
885-8018-31	P2-B28	Total/NA	Solid	300.0	8628
885-8018-32	P2-B31	Total/NA	Solid	300.0	8628
885-8018-33	PS-17A	Total/NA	Solid	300.0	8628
MB 885-8628/1-A	Method Blank	Total/NA	Solid	300.0	8628
MB 885-8749/101	Method Blank	Total/NA	Solid	300.0	
LCS 885-8628/2-A	Lab Control Sample	Total/NA	Solid	300.0	8628
MRL 885-8749/100	Lab Control Sample	Total/NA	Solid	300.0	
885-8018-27 MS	P2-B17	Total/NA	Solid	300.0	8628
885-8018-27 MSD	P2-B17	Total/NA	Solid	300.0	8628
885-8018-28 MS	P2-B22	Total/NA	Solid	300.0	8628
885-8018-28 MSD	P2-B22	Total/NA	Solid	300.0	8628

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W1

Lab Sample ID: 885-8018-1
Matrix: Solid
Date Collected: 07/12/24 09:20
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 03:27
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 04:12
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8875	KR	EET ALB	07/22/24 11:21
Total/NA	Prep	300_Prep			8592	RC	EET ALB	07/17/24 13:50
Total/NA	Analysis	300.0		20	8625	EH	EET ALB	07/18/24 02:11

Client Sample ID: P2-W2

Lab Sample ID: 885-8018-2
Matrix: Solid
Date Collected: 07/12/24 09:24
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 03:49
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 04:34
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8875	KR	EET ALB	07/22/24 11:32
Total/NA	Prep	300_Prep			8592	RC	EET ALB	07/17/24 13:50
Total/NA	Analysis	300.0		20	8625	EH	EET ALB	07/18/24 02:23

Client Sample ID: P2-W3

Lab Sample ID: 885-8018-3
Matrix: Solid
Date Collected: 07/12/24 09:26
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 04:11
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 05:17
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8875	KR	EET ALB	07/22/24 11:43
Total/NA	Prep	300_Prep			8592	RC	EET ALB	07/17/24 13:50
Total/NA	Analysis	300.0		20	8625	EH	EET ALB	07/18/24 02:36

Client Sample ID: P2-W4

Lab Sample ID: 885-8018-4
Matrix: Solid
Date Collected: 07/12/24 09:30
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 04:32

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W4

Lab Sample ID: 885-8018-4

Date Collected: 07/12/24 09:30
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 05:39
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8875	KR	EET ALB	07/22/24 11:54
Total/NA	Prep	300_Prep			8592	RC	EET ALB	07/17/24 13:50
Total/NA	Analysis	300.0		20	8625	EH	EET ALB	07/18/24 02:48

Client Sample ID: P2-W5

Lab Sample ID: 885-8018-5

Date Collected: 07/12/24 09:34
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 04:54
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 06:01
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8986	DH	EET ALB	07/23/24 14:00
Total/NA	Prep	300_Prep			8592	RC	EET ALB	07/17/24 13:50
Total/NA	Analysis	300.0		20	8625	EH	EET ALB	07/18/24 03:00

Client Sample ID: P2-W6

Lab Sample ID: 885-8018-6

Date Collected: 07/12/24 09:36
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 05:16
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 06:22
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8875	KR	EET ALB	07/22/24 12:15
Total/NA	Prep	300_Prep			8592	RC	EET ALB	07/17/24 13:50
Total/NA	Analysis	300.0		20	8625	EH	EET ALB	07/18/24 03:13

Client Sample ID: P2-W7

Lab Sample ID: 885-8018-7

Date Collected: 07/12/24 09:40
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 05:38
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 06:44

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W7

Lab Sample ID: 885-8018-7

Date Collected: 07/12/24 09:40
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8875	KR	EET ALB	07/22/24 12:26
Total/NA	Prep	300_Prep			8592	RC	EET ALB	07/17/24 13:50
Total/NA	Analysis	300.0		20	8625	EH	EET ALB	07/18/24 03:25

Client Sample ID: P2-W8

Lab Sample ID: 885-8018-8

Date Collected: 07/12/24 09:44
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 05:59
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 07:06
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8986	DH	EET ALB	07/23/24 14:24
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/17/24 23:09

Client Sample ID: P2-W9

Lab Sample ID: 885-8018-9

Date Collected: 07/12/24 09:48
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 06:21
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 07:28
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8875	KR	EET ALB	07/22/24 12:47
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/17/24 23:22

Client Sample ID: P2-W10

Lab Sample ID: 885-8018-10

Date Collected: 07/12/24 09:50
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 06:43
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 07:50
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8875	KR	EET ALB	07/22/24 12:58

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W10

Date Collected: 07/12/24 09:50
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/17/24 23:34

Client Sample ID: P2-W11

Date Collected: 07/12/24 09:52
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 07:05
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 08:11
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8878	DH	EET ALB	07/23/24 04:14
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/17/24 23:46

Client Sample ID: P2-W12

Date Collected: 07/12/24 09:54
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 07:26
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 08:33
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8878	DH	EET ALB	07/23/24 04:38
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/17/24 23:59

Client Sample ID: P2-W13

Date Collected: 07/12/24 10:00
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 07:48
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 09:39
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8878	DH	EET ALB	07/23/24 05:02
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 00:11

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W14

Lab Sample ID: 885-8018-14

Date Collected: 07/12/24 10:02
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 08:10
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 10:01
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8878	DH	EET ALB	07/23/24 05:27
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 00:48

Client Sample ID: P2-W15

Lab Sample ID: 885-8018-15

Date Collected: 07/12/24 10:04
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 08:32
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 10:22
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8878	DH	EET ALB	07/23/24 05:51
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 01:00

Client Sample ID: P2-W16

Lab Sample ID: 885-8018-16

Date Collected: 07/12/24 10:06
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8015M/D		1	8769	AT	EET ALB	07/19/24 08:54
Total/NA	Prep	5030C			8499	JP	EET ALB	07/16/24 12:17
Total/NA	Analysis	8021B		1	8678	AT	EET ALB	07/18/24 10:44
Total/NA	Prep	SHAKE			8595	KR	EET ALB	07/17/24 14:29
Total/NA	Analysis	8015M/D		1	8878	DH	EET ALB	07/23/24 06:14
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 02:02

Client Sample ID: P2-W17

Lab Sample ID: 885-8018-17

Date Collected: 07/12/24 10:08
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 13:07

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W17

Lab Sample ID: 885-8018-17

Date Collected: 07/12/24 10:08

Matrix: Solid

Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 13:07
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 10:20
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 02:15

Client Sample ID: P2-W18

Lab Sample ID: 885-8018-18

Date Collected: 07/12/24 10:12

Matrix: Solid

Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 14:18
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 14:18
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8655	KR	EET ALB	07/18/24 12:38
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 02:27

Client Sample ID: P2-W19

Lab Sample ID: 885-8018-19

Date Collected: 07/12/24 10:20

Matrix: Solid

Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 15:30
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 15:30
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 11:14
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 02:39

Client Sample ID: P2-W20

Lab Sample ID: 885-8018-20

Date Collected: 07/12/24 10:24

Matrix: Solid

Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 15:53
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 15:53

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-W20

Lab Sample ID: 885-8018-20

Date Collected: 07/12/24 10:24
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 11:36
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 02:52

Client Sample ID: P2-W21

Lab Sample ID: 885-8018-21

Date Collected: 07/12/24 10:30
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 16:17
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 16:17
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 11:58
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 03:04

Client Sample ID: P2-B8

Lab Sample ID: 885-8018-22

Date Collected: 07/12/24 11:30
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 16:41
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 16:41
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 12:20
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 03:16

Client Sample ID: P2-B9

Lab Sample ID: 885-8018-23

Date Collected: 07/12/24 11:32
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 17:05
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 17:05
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 12:42

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B9

Date Collected: 07/12/24 11:32
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 03:29

Client Sample ID: P2-B10

Date Collected: 07/12/24 11:34
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 17:28
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 17:28
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 13:04
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 04:06

Client Sample ID: P2-B11

Date Collected: 07/12/24 11:40
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 17:52
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 17:52
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 13:36
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 04:18

Client Sample ID: P2-B12

Date Collected: 07/12/24 11:42
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 19:03
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 19:03
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 13:58
Total/NA	Prep	300_Prep			8601	RC	EET ALB	07/17/24 15:56
Total/NA	Analysis	300.0		20	8619	RC	EET ALB	07/18/24 04:31

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B17

Lab Sample ID: 885-8018-27

Date Collected: 07/12/24 11:44
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 19:27
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 19:27
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 14:20
Total/NA	Prep	300_Prep			8628	RC	EET ALB	07/18/24 08:22
Total/NA	Analysis	300.0		20	8749	JT	EET ALB	07/18/24 09:49

Client Sample ID: P2-B22

Lab Sample ID: 885-8018-28

Date Collected: 07/12/24 11:46
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 19:50
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 19:50
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 14:42
Total/NA	Prep	300_Prep			8628	RC	EET ALB	07/18/24 08:22
Total/NA	Analysis	300.0		20	8749	JT	EET ALB	07/18/24 10:26

Client Sample ID: P2-B24

Lab Sample ID: 885-8018-29

Date Collected: 07/12/24 11:50
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 20:14
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 20:14
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 15:04
Total/NA	Prep	300_Prep			8628	RC	EET ALB	07/18/24 08:22
Total/NA	Analysis	300.0		20	8749	JT	EET ALB	07/18/24 11:30

Client Sample ID: P2-B27

Lab Sample ID: 885-8018-30

Date Collected: 07/12/24 11:52
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 20:37

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: P2-B27

Lab Sample ID: 885-8018-30

Date Collected: 07/12/24 11:52
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 20:37
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 15:26
Total/NA	Prep	300_Prep			8628	RC	EET ALB	07/18/24 08:22
Total/NA	Analysis	300.0		20	8749	JT	EET ALB	07/18/24 11:43

Client Sample ID: P2-B28

Lab Sample ID: 885-8018-31

Date Collected: 07/12/24 11:54
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 21:01
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 21:01
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 15:48
Total/NA	Prep	300_Prep			8628	RC	EET ALB	07/18/24 08:22
Total/NA	Analysis	300.0		20	8749	JT	EET ALB	07/18/24 11:55

Client Sample ID: P2-B31

Lab Sample ID: 885-8018-32

Date Collected: 07/12/24 11:56
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 21:25
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 21:25
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 16:10
Total/NA	Prep	300_Prep			8628	RC	EET ALB	07/18/24 08:22
Total/NA	Analysis	300.0		20	8749	JT	EET ALB	07/18/24 12:07

Client Sample ID: PS-17A

Lab Sample ID: 885-8018-33

Date Collected: 07/12/24 12:00
Matrix: Solid
Date Received: 07/16/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8015M/D		1	8761	JP	EET ALB	07/18/24 21:48
Total/NA	Prep	5030C			8549	JP	EET ALB	07/17/24 09:20
Total/NA	Analysis	8021B		1	8763	JP	EET ALB	07/18/24 21:48

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-8018-1

Client Sample ID: PS-17A

Date Collected: 07/12/24 12:00
Date Received: 07/16/24 07:35

Lab Sample ID: 885-8018-33

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			8606	DH	EET ALB	07/17/24 16:31
Total/NA	Analysis	8015M/D		1	8751	DH	EET ALB	07/19/24 16:32
Total/NA	Prep	300_Prep			8628	RC	EET ALB	07/18/24 08:22
Total/NA	Analysis	300.0		20	8749	JT	EET ALB	07/18/24 12:20

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-8018-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-8018 COC

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☐ Yes ☐ No

# of Coolers: 1 (0°C)

Cooler Temp(including CF): 1.8-0=1.8

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
7/12/24	0920	SOIL	P2-W1	1x4oz Jar	ICE	1			
	0924		P2-W2			2			
	0926		P2-W3			3			
	0930		P2-W4			4			
	0934		P2-W5			5			
	0936		P2-W6			6			
	0940		P2-W7			7			
	0944		P2-W8			8			
	0948		P2-W9			9			
	0950		P2-W10			10			
	0952		P2-W11			11			
	0954		P2-W12			12			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/15/24	1005				7/15/24	1005
7/15/24	1900			Courier	7/16/24	7:35

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☐ Yes ☐ No

# of Coolers: 1 YOK

Cooler Temp(including CF): 1.8-0=1.8

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
7/12/24	1000	SOIL	P2-W13	1x4oz Jar	ICE	13	X	X	X
	1002		P2-W14			14			
	1004		P2-W15			15			
	1006		P2-W16			16			
	1008		P2-W17			17			
	1012		P2-W18			18			
	1020		P2-W19			19			
	1024		P2-W20			20			
	1030		P2-W21			21			
	1130		P2-B8			22			
	1132		P2-B9			23			
	1134		P2-B10			24			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/15/24	1005				7/15/24	1005
7/15/24	1900			Courier	7/16/24	7:35

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☒ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☒ Yes ☐ No

# of Coolers: 1 4oz

Cooler Temp(including CF): 1.8-0=1.8

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
7/12/24	1140	SOIL	P2-B11	1x4oz Jar	ICE	25			
	1142		P2-B12			26			
	1144		P2-B17			27			
	1146		P2-B22			28			
	1150		P2-B24			29			
	1152		P2-B27			30			
	1154		P2-B28			31			
	1156		P2-B31			32			
	1200		PS-17A			33			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/15/24	1005				7/15/24	1005
7/15/24	1900			courier	7/16/24	7:35

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-8018-1

Login Number: 8018 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 8/23/2024 3:12:52 PM Revision 1

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-9209-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

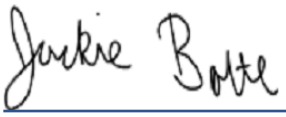
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Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Revision 1

Authorized for release by
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Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-9209-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-9209-1
Project/Site: Roy SWD #3

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc Job ID: 885-9209-1
Project: Roy SWD #3

Job ID: 885-9209-1 **Eurofins Albuquerque**

Job Narrative
885-9209-1

REVISION

The report being provided is a revision of the original report sent on 8/14/2024. The report (revision 1) is being revised due to Updating sample ID's..

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/6/2024 7:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.2°C and 0.3°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: Surrogate recovery for the following samples were outside the upper control limit: P2-B47 (885-9209-29), P2-B52 (885-9209-30), P2-B6 (885-9209-31), P2-B5 (885-9209-32), PS-41 (885-9209-33) and PS-42 (885-9209-34). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-9899 and analytical batch 885-9998 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-10018 recovered outside acceptance criteria, low biased, for Di-n-octyl phthalate (Surr). Low surrogate recovery potentially caused by high chloride content in samples that were ran prior.

Method 8015D_DRO: Surrogate recovery for the following samples is outside the lower control limit: P2-W28 (885-9209-19), P2-W29 (885-9209-20), (885-9209-A-20-C MS) and (885-9209-A-20-D MSD). Low surrogate recovery potentially caused by high chloride content in samples. Reporting samples as is with narration due to chloride results and instrument damage.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B42

Date Collected: 08/02/24 09:00
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 11:08	08/11/24 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*08/06/24 11:08*	*08/11/24 01:42*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 11:08	08/11/24 01:42	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 11:08	08/11/24 01:42	1
Toluene	ND		0.048		mg/Kg		08/06/24 11:08	08/11/24 01:42	1
Xylenes, Total	ND		0.096		mg/Kg		08/06/24 11:08	08/11/24 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*08/06/24 11:08*	*08/11/24 01:42*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/07/24 14:12	08/08/24 12:27	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/07/24 14:12	08/08/24 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*08/07/24 14:12*	*08/08/24 12:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**330**		60		mg/Kg		08/08/24 07:48	08/08/24 12:58	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B41

Date Collected: 08/02/24 09:04
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/06/24 11:08	08/11/24 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*08/06/24 11:08*	*08/11/24 02:52*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 11:08	08/11/24 02:52	1
Ethylbenzene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 02:52	1
Toluene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 02:52	1
Xylenes, Total	ND		0.097		mg/Kg		08/06/24 11:08	08/11/24 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*08/06/24 11:08*	*08/11/24 02:52*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		08/07/24 14:12	08/08/24 12:38	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/07/24 14:12	08/08/24 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*08/07/24 14:12*	*08/08/24 12:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**970**		60		mg/Kg		08/08/24 07:48	08/08/24 13:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B1

Date Collected: 08/02/24 09:10
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/06/24 11:08	08/11/24 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/06/24 11:08*	*08/11/24 04:02*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 11:08	08/11/24 04:02	1
Ethylbenzene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 04:02	1
Toluene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 04:02	1
Xylenes, Total	ND		0.097		mg/Kg		08/06/24 11:08	08/11/24 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*08/06/24 11:08*	*08/11/24 04:02*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.5		mg/Kg		08/07/24 14:12	08/08/24 12:48	1
Motor Oil Range Organics [C28-C40]	ND		42		mg/Kg		08/07/24 14:12	08/08/24 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*08/07/24 14:12*	*08/08/24 12:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		60		mg/Kg		08/08/24 07:48	08/08/24 13:24	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B14

Date Collected: 08/02/24 09:12
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 11:08	08/11/24 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 11:08*	*08/11/24 04:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 11:08	08/11/24 04:26	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 11:08	08/11/24 04:26	1
Toluene	ND		0.048		mg/Kg		08/06/24 11:08	08/11/24 04:26	1
Xylenes, Total	ND		0.097		mg/Kg		08/06/24 11:08	08/11/24 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*08/06/24 11:08*	*08/11/24 04:26*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		08/07/24 14:12	08/08/24 12:59	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/07/24 14:12	08/08/24 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*08/07/24 14:12*	*08/08/24 12:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**990**		60		mg/Kg		08/08/24 07:48	08/08/24 13:37	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B50

Date Collected: 08/02/24 09:14
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 11:08	08/11/24 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/06/24 11:08*	*08/11/24 04:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 11:08	08/11/24 04:49	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 11:08	08/11/24 04:49	1
Toluene	ND		0.050		mg/Kg		08/06/24 11:08	08/11/24 04:49	1
Xylenes, Total	ND		0.10		mg/Kg		08/06/24 11:08	08/11/24 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*08/06/24 11:08*	*08/11/24 04:49*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		08/07/24 14:12	08/08/24 13:10	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		08/07/24 14:12	08/08/24 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*08/07/24 14:12*	*08/08/24 13:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		60		mg/Kg		08/08/24 07:48	08/08/24 13:50	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B51

Date Collected: 08/02/24 09:20
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/06/24 11:08	08/11/24 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*08/06/24 11:08*	*08/11/24 05:12*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 11:08	08/11/24 05:12	1
Ethylbenzene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 05:12	1
Toluene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 05:12	1
Xylenes, Total	ND		0.098		mg/Kg		08/06/24 11:08	08/11/24 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*08/06/24 11:08*	*08/11/24 05:12*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		08/07/24 14:12	08/08/24 13:21	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/07/24 14:12	08/08/24 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*08/07/24 14:12*	*08/08/24 13:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1900**		60		mg/Kg		08/08/24 07:48	08/08/24 14:03	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B30

Date Collected: 08/02/24 09:26
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		08/06/24 11:08	08/11/24 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/06/24 11:08*	*08/11/24 05:36*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 11:08	08/11/24 05:36	1
Ethylbenzene	ND		0.047		mg/Kg		08/06/24 11:08	08/11/24 05:36	1
Toluene	ND		0.047		mg/Kg		08/06/24 11:08	08/11/24 05:36	1
Xylenes, Total	ND		0.094		mg/Kg		08/06/24 11:08	08/11/24 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*08/06/24 11:08*	*08/11/24 05:36*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/07/24 14:12	08/08/24 13:32	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/07/24 14:12	08/08/24 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*08/07/24 14:12*	*08/08/24 13:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		60		mg/Kg		08/08/24 07:48	08/08/24 14:16	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B38
Date Collected: 08/02/24 09:40
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-8
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 11:08	08/11/24 05:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 11:08*	*08/11/24 05:59*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 11:08	08/11/24 05:59	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 11:08	08/11/24 05:59	1
Toluene	ND		0.048		mg/Kg		08/06/24 11:08	08/11/24 05:59	1
Xylenes, Total	ND		0.096		mg/Kg		08/06/24 11:08	08/11/24 05:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*08/06/24 11:08*	*08/11/24 05:59*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/07/24 14:12	08/08/24 13:42	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/07/24 14:12	08/08/24 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*08/07/24 14:12*	*08/08/24 13:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**480**		60		mg/Kg		08/08/24 07:48	08/08/24 15:20	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B34

Date Collected: 08/02/24 09:48
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 11:08	08/11/24 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 11:08*	*08/11/24 06:23*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 11:08	08/11/24 06:23	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 11:08	08/11/24 06:23	1
Toluene	ND		0.048		mg/Kg		08/06/24 11:08	08/11/24 06:23	1
Xylenes, Total	ND		0.096		mg/Kg		08/06/24 11:08	08/11/24 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*08/06/24 11:08*	*08/11/24 06:23*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/07/24 14:12	08/08/24 13:53	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/07/24 14:12	08/08/24 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*08/07/24 14:12*	*08/08/24 13:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		60		mg/Kg		08/08/24 07:48	08/08/24 15:32	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B36

Date Collected: 08/02/24 09:50
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 11:08	08/11/24 06:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*08/06/24 11:08*	*08/11/24 06:46*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 11:08	08/11/24 06:46	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 11:08	08/11/24 06:46	1
Toluene	ND		0.048		mg/Kg		08/06/24 11:08	08/11/24 06:46	1
Xylenes, Total	ND		0.095		mg/Kg		08/06/24 11:08	08/11/24 06:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*08/06/24 11:08*	*08/11/24 06:46*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/07/24 14:12	08/08/24 14:29	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/07/24 14:12	08/08/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*08/07/24 14:12*	*08/08/24 14:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		60		mg/Kg		08/08/24 07:48	08/08/24 15:45	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B26

Date Collected: 08/02/24 09:54
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		08/06/24 11:08	08/11/24 07:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*08/06/24 11:08*	*08/11/24 07:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/06/24 11:08	08/11/24 07:33	1
Ethylbenzene	ND		0.047		mg/Kg		08/06/24 11:08	08/11/24 07:33	1
Toluene	ND		0.047		mg/Kg		08/06/24 11:08	08/11/24 07:33	1
Xylenes, Total	ND		0.093		mg/Kg		08/06/24 11:08	08/11/24 07:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/06/24 11:08*	*08/11/24 07:33*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.4		mg/Kg		08/07/24 14:12	08/08/24 14:39	1
Motor Oil Range Organics [C28-C40]	ND		42		mg/Kg		08/07/24 14:12	08/08/24 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*08/07/24 14:12*	*08/08/24 14:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**510**		60		mg/Kg		08/08/24 07:48	08/08/24 15:58	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B19

Date Collected: 08/02/24 09:56
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-12

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/06/24 11:08	08/11/24 07:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 11:08*	*08/11/24 07:56*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 11:08	08/11/24 07:56	1
Ethylbenzene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 07:56	1
Toluene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 07:56	1
Xylenes, Total	ND		0.099		mg/Kg		08/06/24 11:08	08/11/24 07:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/06/24 11:08*	*08/11/24 07:56*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		08/07/24 14:12	08/08/24 15:01	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/07/24 14:12	08/08/24 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*08/07/24 14:12*	*08/08/24 15:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		60		mg/Kg		08/08/24 07:48	08/08/24 16:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-W22

Date Collected: 08/02/24 10:20
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-13

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		08/06/24 11:08	08/11/24 08:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 11:08*	*08/11/24 08:20*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/06/24 11:08	08/11/24 08:20	1
Ethylbenzene	ND		0.046		mg/Kg		08/06/24 11:08	08/11/24 08:20	1
Toluene	ND		0.046		mg/Kg		08/06/24 11:08	08/11/24 08:20	1
Xylenes, Total	ND		0.093		mg/Kg		08/06/24 11:08	08/11/24 08:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/06/24 11:08*	*08/11/24 08:20*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		08/07/24 14:12	08/08/24 15:12	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		08/07/24 14:12	08/08/24 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*08/07/24 14:12*	*08/08/24 15:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**480**		60		mg/Kg		08/08/24 07:48	08/08/24 16:24	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-W23

Date Collected: 08/02/24 10:22
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 11:08	08/11/24 08:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*08/06/24 11:08*	*08/11/24 08:44*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 11:08	08/11/24 08:44	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 11:08	08/11/24 08:44	1
Toluene	ND		0.050		mg/Kg		08/06/24 11:08	08/11/24 08:44	1
Xylenes, Total	ND		0.099		mg/Kg		08/06/24 11:08	08/11/24 08:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*08/06/24 11:08*	*08/11/24 08:44*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/07/24 14:12	08/08/24 15:23	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/07/24 14:12	08/08/24 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*70*		*62 - 134*	*08/07/24 14:12*	*08/08/24 15:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**530**		60		mg/Kg		08/08/24 07:48	08/08/24 16:37	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-W24

Date Collected: 08/02/24 10:24
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-15

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		08/06/24 11:08	08/11/24 09:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 11:08*	*08/11/24 09:07*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/06/24 11:08	08/11/24 09:07	1
Ethylbenzene	ND		0.046		mg/Kg		08/06/24 11:08	08/11/24 09:07	1
Toluene	ND		0.046		mg/Kg		08/06/24 11:08	08/11/24 09:07	1
Xylenes, Total	ND		0.092		mg/Kg		08/06/24 11:08	08/11/24 09:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/06/24 11:08*	*08/11/24 09:07*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		08/07/24 14:12	08/08/24 15:34	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/07/24 14:12	08/08/24 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*08/07/24 14:12*	*08/08/24 15:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**490**		60		mg/Kg		08/08/24 07:48	08/08/24 16:50	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-W25

Date Collected: 08/02/24 10:30
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-16

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		08/06/24 11:08	08/11/24 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*08/06/24 11:08*	*08/11/24 09:31*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/06/24 11:08	08/11/24 09:31	1
Ethylbenzene	ND		0.047		mg/Kg		08/06/24 11:08	08/11/24 09:31	1
Toluene	ND		0.047		mg/Kg		08/06/24 11:08	08/11/24 09:31	1
Xylenes, Total	ND		0.093		mg/Kg		08/06/24 11:08	08/11/24 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*08/06/24 11:08*	*08/11/24 09:31*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/07/24 14:12	08/08/24 15:45	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/07/24 14:12	08/08/24 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*75*		*62 - 134*	*08/07/24 14:12*	*08/08/24 15:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**470**		60		mg/Kg		08/08/24 07:48	08/08/24 17:28	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-W26

Date Collected: 08/02/24 10:32
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-17

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/06/24 11:08	08/11/24 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*08/06/24 11:08*	*08/11/24 09:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 11:08	08/11/24 09:54	1
Ethylbenzene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 09:54	1
Toluene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 09:54	1
Xylenes, Total	ND		0.099		mg/Kg		08/06/24 11:08	08/11/24 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*08/06/24 11:08*	*08/11/24 09:54*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		08/07/24 14:12	08/08/24 15:56	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/07/24 14:12	08/08/24 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*78*		*62 - 134*	*08/07/24 14:12*	*08/08/24 15:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**540**		60		mg/Kg		08/08/24 07:48	08/08/24 17:41	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-W27

Date Collected: 08/02/24 10:34
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-18

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/06/24 11:08	08/11/24 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 11:08*	*08/11/24 10:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 11:08	08/11/24 10:17	1
Ethylbenzene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 10:17	1
Toluene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 10:17	1
Xylenes, Total	ND		0.098		mg/Kg		08/06/24 11:08	08/11/24 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/06/24 11:08*	*08/11/24 10:17*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/07/24 14:12	08/08/24 16:07	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/07/24 14:12	08/08/24 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*08/07/24 14:12*	*08/08/24 16:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**520**		60		mg/Kg		08/08/24 07:48	08/08/24 17:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-W28

Date Collected: 08/02/24 10:40
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-19

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 11:08	08/11/24 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 11:08*	*08/11/24 10:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 11:08	08/11/24 10:41	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 11:08	08/11/24 10:41	1
Toluene	ND		0.050		mg/Kg		08/06/24 11:08	08/11/24 10:41	1
Xylenes, Total	ND		0.099		mg/Kg		08/06/24 11:08	08/11/24 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*08/06/24 11:08*	*08/11/24 10:41*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/07/24 14:12	08/08/24 16:18	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/07/24 14:12	08/08/24 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*48*	*S1-*	*62 - 134*	*08/07/24 14:12*	*08/08/24 16:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000**		61		mg/Kg		08/08/24 07:48	08/08/24 18:32	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-W29

Date Collected: 08/02/24 10:44
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-20

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/06/24 11:08	08/11/24 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/06/24 11:08*	*08/11/24 11:05*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 11:08	08/11/24 11:05	1
Ethylbenzene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 11:05	1
Toluene	ND		0.049		mg/Kg		08/06/24 11:08	08/11/24 11:05	1
Xylenes, Total	ND		0.097		mg/Kg		08/06/24 11:08	08/11/24 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*08/06/24 11:08*	*08/11/24 11:05*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		08/07/24 14:12	08/08/24 16:29	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/07/24 14:12	08/08/24 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*51*	*S1-*	*62 - 134*	*08/07/24 14:12*	*08/08/24 16:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**420**		60		mg/Kg		08/08/24 08:15	08/08/24 19:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-W30

Date Collected: 08/02/24 10:46
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-21

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 12:31	08/11/24 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 12:31*	*08/11/24 13:25*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 12:31	08/11/24 13:25	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 13:25	1
Toluene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 13:25	1
Xylenes, Total	ND		0.10		mg/Kg		08/06/24 12:31	08/11/24 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*08/06/24 12:31*	*08/11/24 13:25*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/07/24 15:58	08/08/24 21:21	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/07/24 15:58	08/08/24 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*08/07/24 15:58*	*08/08/24 21:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**500**		60		mg/Kg		08/08/24 08:15	08/08/24 19:24	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B18
Date Collected: 08/02/24 11:00
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-22
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 12:31	08/11/24 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/06/24 12:31*	*08/11/24 14:36*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 12:31	08/11/24 14:36	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 14:36	1
Toluene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 14:36	1
Xylenes, Total	ND		0.10		mg/Kg		08/06/24 12:31	08/11/24 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*08/06/24 12:31*	*08/11/24 14:36*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		08/07/24 15:58	08/08/24 21:49	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/07/24 15:58	08/08/24 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*08/07/24 15:58*	*08/08/24 21:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**520**		61		mg/Kg		08/08/24 08:15	08/08/24 20:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B16

Date Collected: 08/02/24 11:10
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-23

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 12:31	08/11/24 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*08/06/24 12:31*	*08/11/24 15:46*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 12:31	08/11/24 15:46	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 12:31	08/11/24 15:46	1
Toluene	ND		0.048		mg/Kg		08/06/24 12:31	08/11/24 15:46	1
Xylenes, Total	ND		0.096		mg/Kg		08/06/24 12:31	08/11/24 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*08/06/24 12:31*	*08/11/24 15:46*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/07/24 15:58	08/08/24 22:03	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/07/24 15:58	08/08/24 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*73*		*62 - 134*	*08/07/24 15:58*	*08/08/24 22:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**330**		60		mg/Kg		08/08/24 08:15	08/08/24 21:07	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B53

Date Collected: 08/02/24 11:12
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-24

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 12:31	08/11/24 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*08/06/24 12:31*	*08/11/24 16:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 12:31	08/11/24 16:10	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 16:10	1
Toluene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 16:10	1
Xylenes, Total	ND		0.099		mg/Kg		08/06/24 12:31	08/11/24 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*08/06/24 12:31*	*08/11/24 16:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/07/24 15:58	08/08/24 22:16	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/07/24 15:58	08/08/24 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*113*		*62 - 134*	*08/07/24 15:58*	*08/08/24 22:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		60		mg/Kg		08/08/24 08:15	08/08/24 21:20	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B54

Date Collected: 08/02/24 11:14
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-25

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/06/24 12:31	08/11/24 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*08/06/24 12:31*	*08/11/24 16:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 12:31	08/11/24 16:33	1
Ethylbenzene	ND		0.049		mg/Kg		08/06/24 12:31	08/11/24 16:33	1
Toluene	ND		0.049		mg/Kg		08/06/24 12:31	08/11/24 16:33	1
Xylenes, Total	ND		0.098		mg/Kg		08/06/24 12:31	08/11/24 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/06/24 12:31*	*08/11/24 16:33*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		08/07/24 15:58	08/08/24 22:30	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/07/24 15:58	08/08/24 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*08/07/24 15:58*	*08/08/24 22:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**550**		60		mg/Kg		08/08/24 08:15	08/08/24 21:33	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B55

Date Collected: 08/02/24 11:18
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-26

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		08/06/24 12:31	08/11/24 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 12:31*	*08/11/24 16:57*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 12:31	08/11/24 16:57	1
Ethylbenzene	ND		0.047		mg/Kg		08/06/24 12:31	08/11/24 16:57	1
Toluene	ND		0.047		mg/Kg		08/06/24 12:31	08/11/24 16:57	1
Xylenes, Total	ND		0.094		mg/Kg		08/06/24 12:31	08/11/24 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*08/06/24 12:31*	*08/11/24 16:57*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/07/24 15:58	08/08/24 22:43	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/07/24 15:58	08/08/24 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*109*		*62 - 134*	*08/07/24 15:58*	*08/08/24 22:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**490**		60		mg/Kg		08/08/24 08:15	08/08/24 21:45	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B15

Date Collected: 08/02/24 11:20
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-27

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		08/06/24 12:31	08/11/24 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/06/24 12:31*	*08/11/24 17:20*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 12:31	08/11/24 17:20	1
Ethylbenzene	ND		0.047		mg/Kg		08/06/24 12:31	08/11/24 17:20	1
Toluene	ND		0.047		mg/Kg		08/06/24 12:31	08/11/24 17:20	1
Xylenes, Total	ND		0.094		mg/Kg		08/06/24 12:31	08/11/24 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*08/06/24 12:31*	*08/11/24 17:20*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/07/24 15:58	08/08/24 22:57	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/07/24 15:58	08/08/24 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*08/07/24 15:58*	*08/08/24 22:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		60		mg/Kg		08/08/24 08:15	08/08/24 21:58	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B43

Date Collected: 08/02/24 11:24
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-28

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 12:31	08/11/24 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 12:31*	*08/11/24 17:44*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 12:31	08/11/24 17:44	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 17:44	1
Toluene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 17:44	1
Xylenes, Total	ND		0.099		mg/Kg		08/06/24 12:31	08/11/24 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*08/06/24 12:31*	*08/11/24 17:44*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/07/24 15:58	08/08/24 23:11	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/07/24 15:58	08/08/24 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*126*		*62 - 134*	*08/07/24 15:58*	*08/08/24 23:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		60		mg/Kg		08/08/24 08:15	08/08/24 22:37	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B47

Date Collected: 08/02/24 11:26
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-29

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		08/06/24 12:31	08/11/24 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 12:31*	*08/11/24 18:07*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/06/24 12:31	08/11/24 18:07	1
Ethylbenzene	ND		0.047		mg/Kg		08/06/24 12:31	08/11/24 18:07	1
Toluene	ND		0.047		mg/Kg		08/06/24 12:31	08/11/24 18:07	1
Xylenes, Total	ND		0.094		mg/Kg		08/06/24 12:31	08/11/24 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*08/06/24 12:31*	*08/11/24 18:07*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		08/07/24 15:58	08/08/24 23:25	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		08/07/24 15:58	08/08/24 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*214*	*S1+*	*62 - 134*	*08/07/24 15:58*	*08/08/24 23:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		60		mg/Kg		08/08/24 08:15	08/08/24 22:50	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B52

Date Collected: 08/02/24 11:30
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-30

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 12:31	08/11/24 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/06/24 12:31*	*08/11/24 18:31*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 12:31	08/11/24 18:31	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 12:31	08/11/24 18:31	1
Toluene	ND		0.048		mg/Kg		08/06/24 12:31	08/11/24 18:31	1
Xylenes, Total	ND		0.097		mg/Kg		08/06/24 12:31	08/11/24 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/06/24 12:31*	*08/11/24 18:31*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/07/24 15:58	08/08/24 23:39	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/07/24 15:58	08/08/24 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*292*	*S1+*	*62 - 134*	*08/07/24 15:58*	*08/08/24 23:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		60		mg/Kg		08/08/24 08:15	08/08/24 23:03	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B6

Date Collected: 08/02/24 11:36
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-31

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 12:31	08/11/24 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*08/06/24 12:31*	*08/11/24 19:18*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 12:31	08/11/24 19:18	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 12:31	08/11/24 19:18	1
Toluene	ND		0.048		mg/Kg		08/06/24 12:31	08/11/24 19:18	1
Xylenes, Total	ND		0.096		mg/Kg		08/06/24 12:31	08/11/24 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*08/06/24 12:31*	*08/11/24 19:18*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/07/24 15:58	08/08/24 23:53	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/07/24 15:58	08/08/24 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*280*	*S1+*	*62 - 134*	*08/07/24 15:58*	*08/08/24 23:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**630**		60		mg/Kg		08/08/24 08:15	08/08/24 23:16	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B5

Date Collected: 08/02/24 11:40
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-32

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/06/24 12:31	08/11/24 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/06/24 12:31*	*08/11/24 19:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 12:31	08/11/24 19:41	1
Ethylbenzene	ND		0.049		mg/Kg		08/06/24 12:31	08/11/24 19:41	1
Toluene	ND		0.049		mg/Kg		08/06/24 12:31	08/11/24 19:41	1
Xylenes, Total	ND		0.099		mg/Kg		08/06/24 12:31	08/11/24 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/06/24 12:31*	*08/11/24 19:41*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		08/07/24 15:58	08/09/24 00:06	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/07/24 15:58	08/09/24 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*257*	*S1+*	*62 - 134*	*08/07/24 15:58*	*08/09/24 00:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		60		mg/Kg		08/08/24 08:15	08/08/24 23:29	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-41

Date Collected: 08/02/24 13:10
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-33

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 12:31	08/11/24 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 12:31*	*08/11/24 20:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 12:31	08/11/24 20:04	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 20:04	1
Toluene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 20:04	1
Xylenes, Total	ND		0.10		mg/Kg		08/06/24 12:31	08/11/24 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/06/24 12:31*	*08/11/24 20:04*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		08/07/24 15:58	08/09/24 00:34	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/07/24 15:58	08/09/24 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*188*	*S1+*	*62 - 134*	*08/07/24 15:58*	*08/09/24 00:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**850**		60		mg/Kg		08/08/24 08:15	08/08/24 23:41	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-42

Date Collected: 08/02/24 13:12
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-34

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		08/06/24 12:31	08/11/24 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*08/06/24 12:31*	*08/11/24 20:28*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 12:31	08/11/24 20:28	1
Ethylbenzene	ND		0.047		mg/Kg		08/06/24 12:31	08/11/24 20:28	1
Toluene	ND		0.047		mg/Kg		08/06/24 12:31	08/11/24 20:28	1
Xylenes, Total	ND		0.094		mg/Kg		08/06/24 12:31	08/11/24 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*08/06/24 12:31*	*08/11/24 20:28*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/07/24 15:58	08/09/24 00:47	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/07/24 15:58	08/09/24 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*157*	*S1+*	*62 - 134*	*08/07/24 15:58*	*08/09/24 00:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		60		mg/Kg		08/08/24 08:15	08/08/24 23:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-43

Date Collected: 08/02/24 13:16
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-35

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 12:31	08/11/24 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 12:31*	*08/11/24 20:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 12:31	08/11/24 20:51	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 12:31	08/11/24 20:51	1
Toluene	ND		0.048		mg/Kg		08/06/24 12:31	08/11/24 20:51	1
Xylenes, Total	ND		0.096		mg/Kg		08/06/24 12:31	08/11/24 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*08/06/24 12:31*	*08/11/24 20:51*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		08/07/24 15:58	08/09/24 01:01	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/07/24 15:58	08/09/24 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*67*		*62 - 134*	*08/07/24 15:58*	*08/09/24 01:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**520**		60		mg/Kg		08/08/24 08:15	08/09/24 00:07	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-44
Date Collected: 08/02/24 13:20
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-36
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/06/24 12:31	08/11/24 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/06/24 12:31*	*08/11/24 21:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 12:31	08/11/24 21:15	1
Ethylbenzene	ND		0.049		mg/Kg		08/06/24 12:31	08/11/24 21:15	1
Toluene	ND		0.049		mg/Kg		08/06/24 12:31	08/11/24 21:15	1
Xylenes, Total	ND		0.098		mg/Kg		08/06/24 12:31	08/11/24 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*08/06/24 12:31*	*08/11/24 21:15*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		08/07/24 15:58	08/09/24 19:12	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/07/24 15:58	08/09/24 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*	*08/07/24 15:58*	*08/09/24 19:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**520**		60		mg/Kg		08/08/24 08:15	08/09/24 00:20	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-45

Date Collected: 08/02/24 14:00
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-37

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 12:31	08/11/24 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/06/24 12:31*	*08/11/24 21:38*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 12:31	08/11/24 21:38	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 21:38	1
Toluene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 21:38	1
Xylenes, Total	ND		0.099		mg/Kg		08/06/24 12:31	08/11/24 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/06/24 12:31*	*08/11/24 21:38*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/12/24 09:07	08/12/24 15:34	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/12/24 09:07	08/12/24 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*08/12/24 09:07*	*08/12/24 15:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**490**		60		mg/Kg		08/08/24 08:15	08/09/24 00:33	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-46

Date Collected: 08/02/24 14:02
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-38

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 12:31	08/11/24 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/06/24 12:31*	*08/11/24 22:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 12:31	08/11/24 22:01	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 12:31	08/11/24 22:01	1
Toluene	ND		0.048		mg/Kg		08/06/24 12:31	08/11/24 22:01	1
Xylenes, Total	ND		0.096		mg/Kg		08/06/24 12:31	08/11/24 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*08/06/24 12:31*	*08/11/24 22:01*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/07/24 15:58	08/09/24 13:11	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/07/24 15:58	08/09/24 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*08/07/24 15:58*	*08/09/24 13:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**680**		60		mg/Kg		08/08/24 08:15	08/09/24 12:04	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-47
Date Collected: 08/02/24 14:06
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-39
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 12:31	08/11/24 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/06/24 12:31*	*08/11/24 22:25*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 12:31	08/11/24 22:25	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 22:25	1
Toluene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 22:25	1
Xylenes, Total	ND		0.10		mg/Kg		08/06/24 12:31	08/11/24 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/06/24 12:31*	*08/11/24 22:25*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		08/07/24 15:58	08/09/24 13:24	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/07/24 15:58	08/09/24 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*77*		*62 - 134*	*08/07/24 15:58*	*08/09/24 13:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**		60		mg/Kg		08/08/24 08:15	08/09/24 12:17	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-48

Date Collected: 08/02/24 14:08
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-40

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/06/24 12:31	08/11/24 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*08/06/24 12:31*	*08/11/24 22:48*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 12:31	08/11/24 22:48	1
Ethylbenzene	ND		0.049		mg/Kg		08/06/24 12:31	08/11/24 22:48	1
Toluene	ND		0.049		mg/Kg		08/06/24 12:31	08/11/24 22:48	1
Xylenes, Total	ND		0.099		mg/Kg		08/06/24 12:31	08/11/24 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*08/06/24 12:31*	*08/11/24 22:48*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	F2	9.8		mg/Kg		08/07/24 15:58	08/09/24 13:37	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/07/24 15:58	08/09/24 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*08/07/24 15:58*	*08/09/24 13:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**660**		60		mg/Kg		08/08/24 16:34	08/09/24 16:09	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-49
Date Collected: 08/02/24 14:10
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-41
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 13:48	08/12/24 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/06/24 13:48*	*08/12/24 12:25*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 13:48	08/12/24 12:25	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 13:48	08/12/24 12:25	1
Toluene	ND		0.050		mg/Kg		08/06/24 13:48	08/12/24 12:25	1
Xylenes, Total	ND		0.10		mg/Kg		08/06/24 13:48	08/12/24 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*08/06/24 13:48*	*08/12/24 12:25*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		08/08/24 10:20	08/08/24 16:51	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		08/08/24 10:20	08/08/24 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*08/08/24 10:20*	*08/08/24 16:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		60		mg/Kg		08/08/24 16:34	08/09/24 16:24	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-50

Date Collected: 08/02/24 14:20
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-42

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 13:48	08/12/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*08/06/24 13:48*	*08/12/24 13:36*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 13:48	08/12/24 13:36	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 13:48	08/12/24 13:36	1
Toluene	ND		0.050		mg/Kg		08/06/24 13:48	08/12/24 13:36	1
Xylenes, Total	ND		0.099		mg/Kg		08/06/24 13:48	08/12/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*08/06/24 13:48*	*08/12/24 13:36*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/08/24 10:20	08/08/24 17:04	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/08/24 10:20	08/08/24 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*08/08/24 10:20*	*08/08/24 17:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**630**		60		mg/Kg		08/08/24 16:34	08/09/24 17:09	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-51
Date Collected: 08/02/24 14:24
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-43
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/06/24 13:48	08/12/24 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*08/06/24 13:48*	*08/12/24 14:47*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 13:48	08/12/24 14:47	1
Ethylbenzene	ND		0.049		mg/Kg		08/06/24 13:48	08/12/24 14:47	1
Toluene	ND		0.049		mg/Kg		08/06/24 13:48	08/12/24 14:47	1
Xylenes, Total	ND		0.098		mg/Kg		08/06/24 13:48	08/12/24 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*08/06/24 13:48*	*08/12/24 14:47*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/08/24 10:20	08/08/24 17:16	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/08/24 10:20	08/08/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*08/08/24 10:20*	*08/08/24 17:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		60		mg/Kg		08/08/24 16:34	08/09/24 17:24	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-52
Date Collected: 08/02/24 14:30
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-44
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 13:48	08/12/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*08/06/24 13:48*	*08/12/24 15:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 13:48	08/12/24 15:11	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 13:48	08/12/24 15:11	1
Toluene	ND		0.048		mg/Kg		08/06/24 13:48	08/12/24 15:11	1
Xylenes, Total	ND		0.097		mg/Kg		08/06/24 13:48	08/12/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*08/06/24 13:48*	*08/12/24 15:11*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/08/24 10:20	08/08/24 17:29	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/08/24 10:20	08/08/24 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*	*08/08/24 10:20*	*08/08/24 17:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**360**		59		mg/Kg		08/09/24 09:54	08/09/24 13:27	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-53

Date Collected: 08/02/24 14:32
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-45

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 13:48	08/12/24 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*08/06/24 13:48*	*08/12/24 15:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 13:48	08/12/24 15:34	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 13:48	08/12/24 15:34	1
Toluene	ND		0.050		mg/Kg		08/06/24 13:48	08/12/24 15:34	1
Xylenes, Total	ND		0.099		mg/Kg		08/06/24 13:48	08/12/24 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*08/06/24 13:48*	*08/12/24 15:34*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		08/08/24 10:20	08/08/24 17:42	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		08/08/24 10:20	08/08/24 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*08/08/24 10:20*	*08/08/24 17:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**420**		60		mg/Kg		08/09/24 09:54	08/09/24 14:18	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B25

Date Collected: 08/02/24 10:02
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-46

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 13:48	08/12/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*08/06/24 13:48*	*08/12/24 15:58*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 13:48	08/12/24 15:58	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 13:48	08/12/24 15:58	1
Toluene	ND		0.050		mg/Kg		08/06/24 13:48	08/12/24 15:58	1
Xylenes, Total	ND		0.10		mg/Kg		08/06/24 13:48	08/12/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*08/06/24 13:48*	*08/12/24 15:58*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/08/24 10:20	08/08/24 17:55	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/08/24 10:20	08/08/24 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*75*		*62 - 134*	*08/08/24 10:20*	*08/08/24 17:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**460**		60		mg/Kg		08/09/24 09:54	08/09/24 14:30	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B33

Date Collected: 08/02/24 10:08
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-47

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 13:48	08/12/24 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*08/06/24 13:48*	*08/12/24 16:22*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 13:48	08/12/24 16:22	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 13:48	08/12/24 16:22	1
Toluene	ND		0.048		mg/Kg		08/06/24 13:48	08/12/24 16:22	1
Xylenes, Total	ND		0.097		mg/Kg		08/06/24 13:48	08/12/24 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*08/06/24 13:48*	*08/12/24 16:22*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/08/24 10:20	08/08/24 18:08	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/08/24 10:20	08/08/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*75*		*62 - 134*	*08/08/24 10:20*	*08/08/24 18:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		60		mg/Kg		08/09/24 09:54	08/09/24 14:43	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B21

Date Collected: 08/02/24 10:10
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-48

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/06/24 13:48	08/12/24 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*08/06/24 13:48*	*08/12/24 16:46*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 13:48	08/12/24 16:46	1
Ethylbenzene	ND		0.049		mg/Kg		08/06/24 13:48	08/12/24 16:46	1
Toluene	ND		0.049		mg/Kg		08/06/24 13:48	08/12/24 16:46	1
Xylenes, Total	ND		0.098		mg/Kg		08/06/24 13:48	08/12/24 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*08/06/24 13:48*	*08/12/24 16:46*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/08/24 10:20	08/08/24 18:36	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/08/24 10:20	08/08/24 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*73*		*62 - 134*	*08/08/24 10:20*	*08/08/24 18:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**460**		60		mg/Kg		08/09/24 09:54	08/09/24 15:20	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B7

Date Collected: 08/02/24 10:12
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-49

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 13:48	08/12/24 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*08/06/24 13:48*	*08/12/24 17:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 13:48	08/12/24 17:10	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 13:48	08/12/24 17:10	1
Toluene	ND		0.048		mg/Kg		08/06/24 13:48	08/12/24 17:10	1
Xylenes, Total	ND		0.097		mg/Kg		08/06/24 13:48	08/12/24 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*08/06/24 13:48*	*08/12/24 17:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/08/24 10:20	08/08/24 18:50	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/08/24 10:20	08/08/24 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*08/08/24 10:20*	*08/08/24 18:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**420**		60		mg/Kg		08/09/24 09:54	08/09/24 15:32	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-17A

Date Collected: 08/02/24 14:34
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-50

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/06/24 13:48	08/12/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*08/06/24 13:48*	*08/12/24 17:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/06/24 13:48	08/12/24 17:33	1
Ethylbenzene	ND		0.048		mg/Kg		08/06/24 13:48	08/12/24 17:33	1
Toluene	ND		0.048		mg/Kg		08/06/24 13:48	08/12/24 17:33	1
Xylenes, Total	ND		0.095		mg/Kg		08/06/24 13:48	08/12/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*08/06/24 13:48*	*08/12/24 17:33*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		08/08/24 10:20	08/08/24 19:04	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/08/24 10:20	08/08/24 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*76*		*62 - 134*	*08/08/24 10:20*	*08/08/24 19:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		60		mg/Kg		08/09/24 09:54	08/09/24 16:09	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-9803/1-A
Matrix: Solid
Analysis Batch: 10071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9803

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 11:08	08/11/24 01:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/06/24 11:08*	*08/11/24 01:18*	*1*

Lab Sample ID: LCS 885-9803/2-A
Matrix: Solid
Analysis Batch: 10071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9803

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	24.0		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*206*		*35 - 166*

Lab Sample ID: 885-9209-1 MS
Matrix: Solid
Analysis Batch: 10071

Client Sample ID: P2-B42
Prep Type: Total/NA
Prep Batch: 9803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		23.8	21.8		mg/Kg		92	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*203*		*35 - 166*

Lab Sample ID: 885-9209-1 MSD
Matrix: Solid
Analysis Batch: 10071

Client Sample ID: P2-B42
Prep Type: Total/NA
Prep Batch: 9803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.1	21.9		mg/Kg		91	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*202*		*35 - 166*

Lab Sample ID: MB 885-9809/1-A
Matrix: Solid
Analysis Batch: 10071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9809

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 12:31	08/11/24 13:02	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 885-9809/1-A
Matrix: Solid
Analysis Batch: 10071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9809

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166	08/06/24 12:31	08/11/24 13:02	1

Lab Sample ID: LCS 885-9809/2-A
Matrix: Solid
Analysis Batch: 10071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9809

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.1		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	210		35 - 166

Lab Sample ID: 885-9209-21 MS
Matrix: Solid
Analysis Batch: 10071

Client Sample ID: P2-W30
Prep Type: Total/NA
Prep Batch: 9809

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	24.5		mg/Kg		98	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	213		35 - 166

Lab Sample ID: 885-9209-21 MSD
Matrix: Solid
Analysis Batch: 10071

Client Sample ID: P2-W30
Prep Type: Total/NA
Prep Batch: 9809

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	23.6		mg/Kg		94	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	210		35 - 166

Lab Sample ID: MB 885-9812/1-A
Matrix: Solid
Analysis Batch: 10169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9812

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/06/24 13:48	08/12/24 12:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166	08/06/24 13:48	08/12/24 12:02	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 885-9812/2-A
Matrix: Solid
Analysis Batch: 10169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9812

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	24.9		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*205*		*35 - 166*

Lab Sample ID: 885-9209-41 MS
Matrix: Solid
Analysis Batch: 10169

Client Sample ID: PS-49
Prep Type: Total/NA
Prep Batch: 9812

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	25.2		mg/Kg		101	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*211*		*35 - 166*

Lab Sample ID: 885-9209-41 MSD
Matrix: Solid
Analysis Batch: 10169

Client Sample ID: PS-49
Prep Type: Total/NA
Prep Batch: 9812

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	26.2		mg/Kg		105	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*217*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-9803/1-A
Matrix: Solid
Analysis Batch: 10072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9803

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 11:08	08/11/24 01:18	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 11:08	08/11/24 01:18	1
Toluene	ND		0.050		mg/Kg		08/06/24 11:08	08/11/24 01:18	1
Xylenes, Total	ND		0.10		mg/Kg		08/06/24 11:08	08/11/24 01:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/06/24 11:08*	*08/11/24 01:18*	*1*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-9803/3-A
Matrix: Solid
Analysis Batch: 10072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9803

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.924		mg/Kg		92	70 - 130		
Ethylbenzene			1.00	0.847		mg/Kg		85	70 - 130		
Toluene			1.00	0.870		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			2.00	1.70		mg/Kg		85	70 - 130		
o-Xylene			1.00	0.818		mg/Kg		82	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*

Lab Sample ID: 885-9209-2 MS
Matrix: Solid
Analysis Batch: 10072

Client Sample ID: P2-B41
Prep Type: Total/NA
Prep Batch: 9803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.970	0.845		mg/Kg		87	70 - 130		
Ethylbenzene	ND		0.970	0.783		mg/Kg		81	70 - 130		
Toluene	ND		0.970	0.803		mg/Kg		81	70 - 130		
m-Xylene & p-Xylene	ND		1.94	1.57		mg/Kg		81	70 - 130		
o-Xylene	ND		0.970	0.751		mg/Kg		77	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*

Lab Sample ID: 885-9209-2 MSD
Matrix: Solid
Analysis Batch: 10072

Client Sample ID: P2-B41
Prep Type: Total/NA
Prep Batch: 9803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.978	0.858		mg/Kg		88	70 - 130	1	20
Ethylbenzene	ND		0.978	0.791		mg/Kg		81	70 - 130	1	20
Toluene	ND		0.978	0.810		mg/Kg		81	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.96	1.58		mg/Kg		81	70 - 130	1	20
o-Xylene	ND		0.978	0.756		mg/Kg		77	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*

Lab Sample ID: MB 885-9809/1-A
Matrix: Solid
Analysis Batch: 10072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9809

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 12:31	08/11/24 13:02	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 13:02	1
Toluene	ND		0.050		mg/Kg		08/06/24 12:31	08/11/24 13:02	1
Xylenes, Total	ND		0.10		mg/Kg		08/06/24 12:31	08/11/24 13:02	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-9809/1-A
Matrix: Solid
Analysis Batch: 10072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9809

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145	08/06/24 12:31	08/11/24 13:02	1

Lab Sample ID: LCS 885-9809/3-A
Matrix: Solid
Analysis Batch: 10072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9809

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.903		mg/Kg		90	70 - 130
Ethylbenzene	1.00	0.838		mg/Kg		84	70 - 130
Toluene	1.00	0.849		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	2.00	1.67		mg/Kg		84	70 - 130
o-Xylene	1.00	0.803		mg/Kg		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		48 - 145

Lab Sample ID: 885-9209-22 MS
Matrix: Solid
Analysis Batch: 10072

Client Sample ID: P2-B18
Prep Type: Total/NA
Prep Batch: 9809

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.999	0.882		mg/Kg		88	70 - 130
Ethylbenzene	ND		0.999	0.804		mg/Kg		80	70 - 130
Toluene	ND		0.999	0.823		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	ND		2.00	1.61		mg/Kg		81	70 - 130
o-Xylene	ND		0.999	0.776		mg/Kg		78	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		48 - 145

Lab Sample ID: 885-9209-22 MSD
Matrix: Solid
Analysis Batch: 10072

Client Sample ID: P2-B18
Prep Type: Total/NA
Prep Batch: 9809

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.997	0.876		mg/Kg		88	70 - 130	1	20
Ethylbenzene	ND		0.997	0.813		mg/Kg		82	70 - 130	1	20
Toluene	ND		0.997	0.835		mg/Kg		82	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.99	1.64		mg/Kg		82	70 - 130	2	20
o-Xylene	ND		0.997	0.788		mg/Kg		79	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		48 - 145

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-9812/1-A
Matrix: Solid
Analysis Batch: 10171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9812

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/06/24 13:48	08/12/24 12:02	1
Ethylbenzene	ND		0.050		mg/Kg		08/06/24 13:48	08/12/24 12:02	1
Toluene	ND		0.050		mg/Kg		08/06/24 13:48	08/12/24 12:02	1
Xylenes, Total	ND		0.10		mg/Kg		08/06/24 13:48	08/12/24 12:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*08/06/24 13:48*	*08/12/24 12:02*	*1*

Lab Sample ID: LCS 885-9812/3-A
Matrix: Solid
Analysis Batch: 10171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.930		mg/Kg		93	70 - 130
Ethylbenzene	1.00	0.853		mg/Kg		85	70 - 130
Toluene	1.00	0.874		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	2.00	1.72		mg/Kg		86	70 - 130
o-Xylene	1.00	0.821		mg/Kg		82	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*

Lab Sample ID: 885-9209-42 MS
Matrix: Solid
Analysis Batch: 10171

Client Sample ID: PS-50
Prep Type: Total/NA
Prep Batch: 9812

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.991	0.855		mg/Kg		86	70 - 130
Ethylbenzene	ND		0.991	0.802		mg/Kg		81	70 - 130
Toluene	ND		0.991	0.820		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	ND		1.98	1.62		mg/Kg		82	70 - 130
o-Xylene	ND		0.991	0.778		mg/Kg		79	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*

Lab Sample ID: 885-9209-42 MSD
Matrix: Solid
Analysis Batch: 10171

Client Sample ID: PS-50
Prep Type: Total/NA
Prep Batch: 9812

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.997	0.881		mg/Kg		88	70 - 130	3	20
Ethylbenzene	ND		0.997	0.819		mg/Kg		82	70 - 130	2	20
Toluene	ND		0.997	0.822		mg/Kg		82	70 - 130	0	20
m-Xylene & p-Xylene	ND		1.99	1.64		mg/Kg		82	70 - 130	1	20
o-Xylene	ND		0.997	0.796		mg/Kg		80	70 - 130	2	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-9209-42 MSD
Matrix: Solid
Analysis Batch: 10171

Client Sample ID: PS-50
Prep Type: Total/NA
Prep Batch: 9812

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-10053/1-A
Matrix: Solid
Analysis Batch: 10076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10053

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/12/24 09:07	08/12/24 15:08	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/12/24 09:07	08/12/24 15:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*08/12/24 09:07*	*08/12/24 15:08*	*1*

Lab Sample ID: LCS 885-10053/2-A
Matrix: Solid
Analysis Batch: 10076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10053

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	49.6		mg/Kg		99	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*

Lab Sample ID: MB 885-9887/1-A
Matrix: Solid
Analysis Batch: 10018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9887

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/07/24 14:12	08/08/24 12:05	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/07/24 14:12	08/08/24 12:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*08/07/24 14:12*	*08/08/24 12:05*	*1*

Lab Sample ID: LCS 885-9887/2-A
Matrix: Solid
Analysis Batch: 10018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9887

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	46.4		mg/Kg		93	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-9209-20 MS
Matrix: Solid
Analysis Batch: 10018

Client Sample ID: P2-W29
Prep Type: Total/NA
Prep Batch: 9887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		43.3	46.0		mg/Kg		106	44 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*61*	*S1-*	*62 - 134*

Lab Sample ID: 885-9209-20 MSD
Matrix: Solid
Analysis Batch: 10018

Client Sample ID: P2-W29
Prep Type: Total/NA
Prep Batch: 9887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		45.5	49.5		mg/Kg		109	44 - 136	7	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*60*	*S1-*	*62 - 134*

Lab Sample ID: MB 885-9899/1-A
Matrix: Solid
Analysis Batch: 9966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9899

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/07/24 15:58	08/08/24 20:54	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/07/24 15:58	08/08/24 20:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*116*		*62 - 134*	*08/07/24 15:58*	*08/08/24 20:54*	*1*

Lab Sample ID: LCS 885-9899/2-A
Matrix: Solid
Analysis Batch: 9966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9899

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	46.7		mg/Kg		93	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*

Lab Sample ID: 885-9209-40 MS
Matrix: Solid
Analysis Batch: 9998

Client Sample ID: PS-48
Prep Type: Total/NA
Prep Batch: 9899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND	F2	46.5	42.0		mg/Kg		90	44 - 136

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-9209-40 MS
Matrix: Solid
Analysis Batch: 9998

Client Sample ID: PS-48
Prep Type: Total/NA
Prep Batch: 9899

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*

Lab Sample ID: 885-9209-40 MSD
Matrix: Solid
Analysis Batch: 9998

Client Sample ID: PS-48
Prep Type: Total/NA
Prep Batch: 9899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND	F2	48.5	64.4	F2	mg/Kg		133	44 - 136	42	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*

Lab Sample ID: MB 885-9936/1-A
Matrix: Solid
Analysis Batch: 9966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9936

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/08/24 10:20	08/08/24 16:13	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/08/24 10:20	08/08/24 16:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*08/08/24 10:20*	*08/08/24 16:13*	*1*

Lab Sample ID: LCS 885-9936/2-A
Matrix: Solid
Analysis Batch: 9966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9936

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	52.8		mg/Kg		106	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-10037/34
Matrix: Solid
Analysis Batch: 10037

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/Kg			08/09/24 20:04	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 885-10037/33
Matrix: Solid
Analysis Batch: 10037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.536		mg/L		107	50 - 150		

Lab Sample ID: MB 885-9910/1-A
Matrix: Solid
Analysis Batch: 9964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9910

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		08/08/24 07:48	08/08/24 12:20	1

Lab Sample ID: LCS 885-9910/2-A
Matrix: Solid
Analysis Batch: 9964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9910

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	32.9		mg/Kg		110	90 - 110		

Lab Sample ID: 885-9209-18 MS
Matrix: Solid
Analysis Batch: 9964

Client Sample ID: P2-W27
Prep Type: Total/NA
Prep Batch: 9910

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	520		29.9	548	4	mg/Kg		78	50 - 150		

Lab Sample ID: MB 885-9919/1-A
Matrix: Solid
Analysis Batch: 9964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9919

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		08/08/24 08:15	08/08/24 14:54	1

Lab Sample ID: LCS 885-9919/2-A
Matrix: Solid
Analysis Batch: 9964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9919

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	32.2		mg/Kg		107	90 - 110		

Lab Sample ID: MB 885-9973/1-A
Matrix: Solid
Analysis Batch: 9995

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9973

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		08/08/24 16:34	08/08/24 17:06	1

Lab Sample ID: LCS 885-9973/2-A
Matrix: Solid
Analysis Batch: 9995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9973

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.5		mg/Kg		97	90 - 110		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-9985/1-A
Matrix: Solid
Analysis Batch: 10037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9985

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		08/09/24 09:54	08/09/24 14:06	1

Lab Sample ID: LCS 885-9985/2-A
Matrix: Solid
Analysis Batch: 10037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9985

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.1		mg/Kg		94	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

GC VOA

Prep Batch: 9803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-1	P2-B42	Total/NA	Solid	5030C	
885-9209-2	P2-B41	Total/NA	Solid	5030C	
885-9209-3	P2-B1	Total/NA	Solid	5030C	
885-9209-4	P2-B14	Total/NA	Solid	5030C	
885-9209-5	P2-B50	Total/NA	Solid	5030C	
885-9209-6	P2-B51	Total/NA	Solid	5030C	
885-9209-7	P2-B30	Total/NA	Solid	5030C	
885-9209-8	P2-B38	Total/NA	Solid	5030C	
885-9209-9	P2-B34	Total/NA	Solid	5030C	
885-9209-10	P2-B36	Total/NA	Solid	5030C	
885-9209-11	P2-B26	Total/NA	Solid	5030C	
885-9209-12	P2-B19	Total/NA	Solid	5030C	
885-9209-13	P2-W22	Total/NA	Solid	5030C	
885-9209-14	P2-W23	Total/NA	Solid	5030C	
885-9209-15	P2-W24	Total/NA	Solid	5030C	
885-9209-16	P2-W25	Total/NA	Solid	5030C	
885-9209-17	P2-W26	Total/NA	Solid	5030C	
885-9209-18	P2-W27	Total/NA	Solid	5030C	
885-9209-19	P2-W28	Total/NA	Solid	5030C	
885-9209-20	P2-W29	Total/NA	Solid	5030C	
MB 885-9803/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-9803/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-9803/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-9209-1 MS	P2-B42	Total/NA	Solid	5030C	
885-9209-1 MSD	P2-B42	Total/NA	Solid	5030C	
885-9209-2 MS	P2-B41	Total/NA	Solid	5030C	
885-9209-2 MSD	P2-B41	Total/NA	Solid	5030C	

Prep Batch: 9809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-21	P2-W30	Total/NA	Solid	5030C	
885-9209-22	P2-B18	Total/NA	Solid	5030C	
885-9209-23	P2-B16	Total/NA	Solid	5030C	
885-9209-24	P2-B53	Total/NA	Solid	5030C	
885-9209-25	P2-B54	Total/NA	Solid	5030C	
885-9209-26	P2-B55	Total/NA	Solid	5030C	
885-9209-27	P2-B15	Total/NA	Solid	5030C	
885-9209-28	P2-B43	Total/NA	Solid	5030C	
885-9209-29	P2-B47	Total/NA	Solid	5030C	
885-9209-30	P2-B52	Total/NA	Solid	5030C	
885-9209-31	P2-B6	Total/NA	Solid	5030C	
885-9209-32	P2-B5	Total/NA	Solid	5030C	
885-9209-33	PS-41	Total/NA	Solid	5030C	
885-9209-34	PS-42	Total/NA	Solid	5030C	
885-9209-35	PS-43	Total/NA	Solid	5030C	
885-9209-36	PS-44	Total/NA	Solid	5030C	
885-9209-37	PS-45	Total/NA	Solid	5030C	
885-9209-38	PS-46	Total/NA	Solid	5030C	
885-9209-39	PS-47	Total/NA	Solid	5030C	
885-9209-40	PS-48	Total/NA	Solid	5030C	
MB 885-9809/1-A	Method Blank	Total/NA	Solid	5030C	

QC Association Summary

Client: Ranger Environmental Services, Inc Job ID: 885-9209-1
Project/Site: Roy SWD #3

GC VOA (Continued)

Prep Batch: 9809 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-9809/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-9809/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-9209-21 MS	P2-W30	Total/NA	Solid	5030C	
885-9209-21 MSD	P2-W30	Total/NA	Solid	5030C	
885-9209-22 MS	P2-B18	Total/NA	Solid	5030C	
885-9209-22 MSD	P2-B18	Total/NA	Solid	5030C	

Prep Batch: 9812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-41	PS-49	Total/NA	Solid	5030C	
885-9209-42	PS-50	Total/NA	Solid	5030C	
885-9209-43	PS-51	Total/NA	Solid	5030C	
885-9209-44	PS-52	Total/NA	Solid	5030C	
885-9209-45	PS-53	Total/NA	Solid	5030C	
885-9209-46	P2-B25	Total/NA	Solid	5030C	
885-9209-47	P2-B33	Total/NA	Solid	5030C	
885-9209-48	P2-B21	Total/NA	Solid	5030C	
885-9209-49	P2-B7	Total/NA	Solid	5030C	
885-9209-50	PS-17A	Total/NA	Solid	5030C	
MB 885-9812/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-9812/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-9812/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-9209-41 MS	PS-49	Total/NA	Solid	5030C	
885-9209-41 MSD	PS-49	Total/NA	Solid	5030C	
885-9209-42 MS	PS-50	Total/NA	Solid	5030C	
885-9209-42 MSD	PS-50	Total/NA	Solid	5030C	

Analysis Batch: 10071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-1	P2-B42	Total/NA	Solid	8015M/D	9803
885-9209-2	P2-B41	Total/NA	Solid	8015M/D	9803
885-9209-3	P2-B1	Total/NA	Solid	8015M/D	9803
885-9209-4	P2-B14	Total/NA	Solid	8015M/D	9803
885-9209-5	P2-B50	Total/NA	Solid	8015M/D	9803
885-9209-6	P2-B51	Total/NA	Solid	8015M/D	9803
885-9209-7	P2-B30	Total/NA	Solid	8015M/D	9803
885-9209-8	P2-B38	Total/NA	Solid	8015M/D	9803
885-9209-9	P2-B34	Total/NA	Solid	8015M/D	9803
885-9209-10	P2-B36	Total/NA	Solid	8015M/D	9803
885-9209-11	P2-B26	Total/NA	Solid	8015M/D	9803
885-9209-12	P2-B19	Total/NA	Solid	8015M/D	9803
885-9209-13	P2-W22	Total/NA	Solid	8015M/D	9803
885-9209-14	P2-W23	Total/NA	Solid	8015M/D	9803
885-9209-15	P2-W24	Total/NA	Solid	8015M/D	9803
885-9209-16	P2-W25	Total/NA	Solid	8015M/D	9803
885-9209-17	P2-W26	Total/NA	Solid	8015M/D	9803
885-9209-18	P2-W27	Total/NA	Solid	8015M/D	9803
885-9209-19	P2-W28	Total/NA	Solid	8015M/D	9803
885-9209-20	P2-W29	Total/NA	Solid	8015M/D	9803
885-9209-21	P2-W30	Total/NA	Solid	8015M/D	9809
885-9209-22	P2-B18	Total/NA	Solid	8015M/D	9809

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

GC VOA (Continued)

Analysis Batch: 10071 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-23	P2-B16	Total/NA	Solid	8015M/D	9809
885-9209-24	P2-B53	Total/NA	Solid	8015M/D	9809
885-9209-25	P2-B54	Total/NA	Solid	8015M/D	9809
885-9209-26	P2-B55	Total/NA	Solid	8015M/D	9809
885-9209-27	P2-B15	Total/NA	Solid	8015M/D	9809
885-9209-28	P2-B43	Total/NA	Solid	8015M/D	9809
885-9209-29	P2-B47	Total/NA	Solid	8015M/D	9809
885-9209-30	P2-B52	Total/NA	Solid	8015M/D	9809
885-9209-31	P2-B6	Total/NA	Solid	8015M/D	9809
885-9209-32	P2-B5	Total/NA	Solid	8015M/D	9809
885-9209-33	PS-41	Total/NA	Solid	8015M/D	9809
885-9209-34	PS-42	Total/NA	Solid	8015M/D	9809
885-9209-35	PS-43	Total/NA	Solid	8015M/D	9809
885-9209-36	PS-44	Total/NA	Solid	8015M/D	9809
885-9209-37	PS-45	Total/NA	Solid	8015M/D	9809
885-9209-38	PS-46	Total/NA	Solid	8015M/D	9809
885-9209-39	PS-47	Total/NA	Solid	8015M/D	9809
885-9209-40	PS-48	Total/NA	Solid	8015M/D	9809
MB 885-9803/1-A	Method Blank	Total/NA	Solid	8015M/D	9803
MB 885-9809/1-A	Method Blank	Total/NA	Solid	8015M/D	9809
LCS 885-9803/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	9803
LCS 885-9809/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	9809
885-9209-1 MS	P2-B42	Total/NA	Solid	8015M/D	9803
885-9209-1 MSD	P2-B42	Total/NA	Solid	8015M/D	9803
885-9209-21 MS	P2-W30	Total/NA	Solid	8015M/D	9809
885-9209-21 MSD	P2-W30	Total/NA	Solid	8015M/D	9809

Analysis Batch: 10072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-1	P2-B42	Total/NA	Solid	8021B	9803
885-9209-2	P2-B41	Total/NA	Solid	8021B	9803
885-9209-3	P2-B1	Total/NA	Solid	8021B	9803
885-9209-4	P2-B14	Total/NA	Solid	8021B	9803
885-9209-5	P2-B50	Total/NA	Solid	8021B	9803
885-9209-6	P2-B51	Total/NA	Solid	8021B	9803
885-9209-7	P2-B30	Total/NA	Solid	8021B	9803
885-9209-8	P2-B38	Total/NA	Solid	8021B	9803
885-9209-9	P2-B34	Total/NA	Solid	8021B	9803
885-9209-10	P2-B36	Total/NA	Solid	8021B	9803
885-9209-11	P2-B26	Total/NA	Solid	8021B	9803
885-9209-12	P2-B19	Total/NA	Solid	8021B	9803
885-9209-13	P2-W22	Total/NA	Solid	8021B	9803
885-9209-14	P2-W23	Total/NA	Solid	8021B	9803
885-9209-15	P2-W24	Total/NA	Solid	8021B	9803
885-9209-16	P2-W25	Total/NA	Solid	8021B	9803
885-9209-17	P2-W26	Total/NA	Solid	8021B	9803
885-9209-18	P2-W27	Total/NA	Solid	8021B	9803
885-9209-19	P2-W28	Total/NA	Solid	8021B	9803
885-9209-20	P2-W29	Total/NA	Solid	8021B	9803
885-9209-21	P2-W30	Total/NA	Solid	8021B	9809
885-9209-22	P2-B18	Total/NA	Solid	8021B	9809

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

GC VOA (Continued)

Analysis Batch: 10072 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-23	P2-B16	Total/NA	Solid	8021B	9809
885-9209-24	P2-B53	Total/NA	Solid	8021B	9809
885-9209-25	P2-B54	Total/NA	Solid	8021B	9809
885-9209-26	P2-B55	Total/NA	Solid	8021B	9809
885-9209-27	P2-B15	Total/NA	Solid	8021B	9809
885-9209-28	P2-B43	Total/NA	Solid	8021B	9809
885-9209-29	P2-B47	Total/NA	Solid	8021B	9809
885-9209-30	P2-B52	Total/NA	Solid	8021B	9809
885-9209-31	P2-B6	Total/NA	Solid	8021B	9809
885-9209-32	P2-B5	Total/NA	Solid	8021B	9809
885-9209-33	PS-41	Total/NA	Solid	8021B	9809
885-9209-34	PS-42	Total/NA	Solid	8021B	9809
885-9209-35	PS-43	Total/NA	Solid	8021B	9809
885-9209-36	PS-44	Total/NA	Solid	8021B	9809
885-9209-37	PS-45	Total/NA	Solid	8021B	9809
885-9209-38	PS-46	Total/NA	Solid	8021B	9809
885-9209-39	PS-47	Total/NA	Solid	8021B	9809
885-9209-40	PS-48	Total/NA	Solid	8021B	9809
MB 885-9803/1-A	Method Blank	Total/NA	Solid	8021B	9803
MB 885-9809/1-A	Method Blank	Total/NA	Solid	8021B	9809
LCS 885-9803/3-A	Lab Control Sample	Total/NA	Solid	8021B	9803
LCS 885-9809/3-A	Lab Control Sample	Total/NA	Solid	8021B	9809
885-9209-2 MS	P2-B41	Total/NA	Solid	8021B	9803
885-9209-2 MSD	P2-B41	Total/NA	Solid	8021B	9803
885-9209-22 MS	P2-B18	Total/NA	Solid	8021B	9809
885-9209-22 MSD	P2-B18	Total/NA	Solid	8021B	9809

Analysis Batch: 10169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-41	PS-49	Total/NA	Solid	8015M/D	9812
885-9209-42	PS-50	Total/NA	Solid	8015M/D	9812
885-9209-43	PS-51	Total/NA	Solid	8015M/D	9812
885-9209-44	PS-52	Total/NA	Solid	8015M/D	9812
885-9209-45	PS-53	Total/NA	Solid	8015M/D	9812
885-9209-46	P2-B25	Total/NA	Solid	8015M/D	9812
885-9209-47	P2-B33	Total/NA	Solid	8015M/D	9812
885-9209-48	P2-B21	Total/NA	Solid	8015M/D	9812
885-9209-49	P2-B7	Total/NA	Solid	8015M/D	9812
885-9209-50	PS-17A	Total/NA	Solid	8015M/D	9812
MB 885-9812/1-A	Method Blank	Total/NA	Solid	8015M/D	9812
LCS 885-9812/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	9812
885-9209-41 MS	PS-49	Total/NA	Solid	8015M/D	9812
885-9209-41 MSD	PS-49	Total/NA	Solid	8015M/D	9812

Analysis Batch: 10171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-41	PS-49	Total/NA	Solid	8021B	9812
885-9209-42	PS-50	Total/NA	Solid	8021B	9812
885-9209-43	PS-51	Total/NA	Solid	8021B	9812
885-9209-44	PS-52	Total/NA	Solid	8021B	9812
885-9209-45	PS-53	Total/NA	Solid	8021B	9812

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

GC VOA (Continued)

Analysis Batch: 10171 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-46	P2-B25	Total/NA	Solid	8021B	9812
885-9209-47	P2-B33	Total/NA	Solid	8021B	9812
885-9209-48	P2-B21	Total/NA	Solid	8021B	9812
885-9209-49	P2-B7	Total/NA	Solid	8021B	9812
885-9209-50	PS-17A	Total/NA	Solid	8021B	9812
MB 885-9812/1-A	Method Blank	Total/NA	Solid	8021B	9812
LCS 885-9812/3-A	Lab Control Sample	Total/NA	Solid	8021B	9812
885-9209-42 MS	PS-50	Total/NA	Solid	8021B	9812
885-9209-42 MSD	PS-50	Total/NA	Solid	8021B	9812

GC Semi VOA

Prep Batch: 9887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-1	P2-B42	Total/NA	Solid	SHAKE	
885-9209-2	P2-B41	Total/NA	Solid	SHAKE	
885-9209-3	P2-B1	Total/NA	Solid	SHAKE	
885-9209-4	P2-B14	Total/NA	Solid	SHAKE	
885-9209-5	P2-B50	Total/NA	Solid	SHAKE	
885-9209-6	P2-B51	Total/NA	Solid	SHAKE	
885-9209-7	P2-B30	Total/NA	Solid	SHAKE	
885-9209-8	P2-B38	Total/NA	Solid	SHAKE	
885-9209-9	P2-B34	Total/NA	Solid	SHAKE	
885-9209-10	P2-B36	Total/NA	Solid	SHAKE	
885-9209-11	P2-B26	Total/NA	Solid	SHAKE	
885-9209-12	P2-B19	Total/NA	Solid	SHAKE	
885-9209-13	P2-W22	Total/NA	Solid	SHAKE	
885-9209-14	P2-W23	Total/NA	Solid	SHAKE	
885-9209-15	P2-W24	Total/NA	Solid	SHAKE	
885-9209-16	P2-W25	Total/NA	Solid	SHAKE	
885-9209-17	P2-W26	Total/NA	Solid	SHAKE	
885-9209-18	P2-W27	Total/NA	Solid	SHAKE	
885-9209-19	P2-W28	Total/NA	Solid	SHAKE	
885-9209-20	P2-W29	Total/NA	Solid	SHAKE	
MB 885-9887/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-9887/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-9209-20 MS	P2-W29	Total/NA	Solid	SHAKE	
885-9209-20 MSD	P2-W29	Total/NA	Solid	SHAKE	

Prep Batch: 9899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-21	P2-W30	Total/NA	Solid	SHAKE	
885-9209-22	P2-B18	Total/NA	Solid	SHAKE	
885-9209-23	P2-B16	Total/NA	Solid	SHAKE	
885-9209-24	P2-B53	Total/NA	Solid	SHAKE	
885-9209-25	P2-B54	Total/NA	Solid	SHAKE	
885-9209-26	P2-B55	Total/NA	Solid	SHAKE	
885-9209-27	P2-B15	Total/NA	Solid	SHAKE	
885-9209-28	P2-B43	Total/NA	Solid	SHAKE	
885-9209-29	P2-B47	Total/NA	Solid	SHAKE	
885-9209-30	P2-B52	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

GC Semi VOA (Continued)

Prep Batch: 9899 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-31	P2-B6	Total/NA	Solid	SHAKE	
885-9209-32	P2-B5	Total/NA	Solid	SHAKE	
885-9209-33	PS-41	Total/NA	Solid	SHAKE	
885-9209-34	PS-42	Total/NA	Solid	SHAKE	
885-9209-35	PS-43	Total/NA	Solid	SHAKE	
885-9209-36	PS-44	Total/NA	Solid	SHAKE	
885-9209-38	PS-46	Total/NA	Solid	SHAKE	
885-9209-39	PS-47	Total/NA	Solid	SHAKE	
885-9209-40	PS-48	Total/NA	Solid	SHAKE	
MB 885-9899/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-9899/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-9209-40 MS	PS-48	Total/NA	Solid	SHAKE	
885-9209-40 MSD	PS-48	Total/NA	Solid	SHAKE	

Prep Batch: 9936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-41	PS-49	Total/NA	Solid	SHAKE	
885-9209-42	PS-50	Total/NA	Solid	SHAKE	
885-9209-43	PS-51	Total/NA	Solid	SHAKE	
885-9209-44	PS-52	Total/NA	Solid	SHAKE	
885-9209-45	PS-53	Total/NA	Solid	SHAKE	
885-9209-46	P2-B25	Total/NA	Solid	SHAKE	
885-9209-47	P2-B33	Total/NA	Solid	SHAKE	
885-9209-48	P2-B21	Total/NA	Solid	SHAKE	
885-9209-49	P2-B7	Total/NA	Solid	SHAKE	
885-9209-50	PS-17A	Total/NA	Solid	SHAKE	
MB 885-9936/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-9936/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 9966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-21	P2-W30	Total/NA	Solid	8015M/D	9899
885-9209-22	P2-B18	Total/NA	Solid	8015M/D	9899
885-9209-23	P2-B16	Total/NA	Solid	8015M/D	9899
885-9209-24	P2-B53	Total/NA	Solid	8015M/D	9899
885-9209-25	P2-B54	Total/NA	Solid	8015M/D	9899
885-9209-26	P2-B55	Total/NA	Solid	8015M/D	9899
885-9209-27	P2-B15	Total/NA	Solid	8015M/D	9899
885-9209-28	P2-B43	Total/NA	Solid	8015M/D	9899
885-9209-29	P2-B47	Total/NA	Solid	8015M/D	9899
885-9209-30	P2-B52	Total/NA	Solid	8015M/D	9899
885-9209-31	P2-B6	Total/NA	Solid	8015M/D	9899
885-9209-32	P2-B5	Total/NA	Solid	8015M/D	9899
885-9209-33	PS-41	Total/NA	Solid	8015M/D	9899
885-9209-34	PS-42	Total/NA	Solid	8015M/D	9899
885-9209-35	PS-43	Total/NA	Solid	8015M/D	9899
885-9209-41	PS-49	Total/NA	Solid	8015M/D	9936
885-9209-42	PS-50	Total/NA	Solid	8015M/D	9936
885-9209-43	PS-51	Total/NA	Solid	8015M/D	9936
885-9209-44	PS-52	Total/NA	Solid	8015M/D	9936
885-9209-45	PS-53	Total/NA	Solid	8015M/D	9936

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

GC Semi VOA (Continued)

Analysis Batch: 9966 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-46	P2-B25	Total/NA	Solid	8015M/D	9936
885-9209-47	P2-B33	Total/NA	Solid	8015M/D	9936
885-9209-48	P2-B21	Total/NA	Solid	8015M/D	9936
885-9209-49	P2-B7	Total/NA	Solid	8015M/D	9936
885-9209-50	PS-17A	Total/NA	Solid	8015M/D	9936
MB 885-9899/1-A	Method Blank	Total/NA	Solid	8015M/D	9899
MB 885-9936/1-A	Method Blank	Total/NA	Solid	8015M/D	9936
LCS 885-9899/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	9899
LCS 885-9936/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	9936

Analysis Batch: 9997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-36	PS-44	Total/NA	Solid	8015M/D	9899

Analysis Batch: 9998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-38	PS-46	Total/NA	Solid	8015M/D	9899
885-9209-39	PS-47	Total/NA	Solid	8015M/D	9899
885-9209-40	PS-48	Total/NA	Solid	8015M/D	9899
885-9209-40 MS	PS-48	Total/NA	Solid	8015M/D	9899
885-9209-40 MSD	PS-48	Total/NA	Solid	8015M/D	9899

Analysis Batch: 10018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-1	P2-B42	Total/NA	Solid	8015M/D	9887
885-9209-2	P2-B41	Total/NA	Solid	8015M/D	9887
885-9209-3	P2-B1	Total/NA	Solid	8015M/D	9887
885-9209-4	P2-B14	Total/NA	Solid	8015M/D	9887
885-9209-5	P2-B50	Total/NA	Solid	8015M/D	9887
885-9209-6	P2-B51	Total/NA	Solid	8015M/D	9887
885-9209-7	P2-B30	Total/NA	Solid	8015M/D	9887
885-9209-8	P2-B38	Total/NA	Solid	8015M/D	9887
885-9209-9	P2-B34	Total/NA	Solid	8015M/D	9887
885-9209-10	P2-B36	Total/NA	Solid	8015M/D	9887
885-9209-11	P2-B26	Total/NA	Solid	8015M/D	9887
885-9209-12	P2-B19	Total/NA	Solid	8015M/D	9887
885-9209-13	P2-W22	Total/NA	Solid	8015M/D	9887
885-9209-14	P2-W23	Total/NA	Solid	8015M/D	9887
885-9209-15	P2-W24	Total/NA	Solid	8015M/D	9887
885-9209-16	P2-W25	Total/NA	Solid	8015M/D	9887
885-9209-17	P2-W26	Total/NA	Solid	8015M/D	9887
885-9209-18	P2-W27	Total/NA	Solid	8015M/D	9887
885-9209-19	P2-W28	Total/NA	Solid	8015M/D	9887
885-9209-20	P2-W29	Total/NA	Solid	8015M/D	9887
MB 885-9887/1-A	Method Blank	Total/NA	Solid	8015M/D	9887
LCS 885-9887/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	9887
885-9209-20 MS	P2-W29	Total/NA	Solid	8015M/D	9887
885-9209-20 MSD	P2-W29	Total/NA	Solid	8015M/D	9887

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

GC Semi VOA

Prep Batch: 10053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-37	PS-45	Total/NA	Solid	SHAKE	
MB 885-10053/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-10053/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 10076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-37	PS-45	Total/NA	Solid	8015M/D	10053
MB 885-10053/1-A	Method Blank	Total/NA	Solid	8015M/D	10053
LCS 885-10053/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10053

HPLC/IC

Prep Batch: 9910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-1	P2-B42	Total/NA	Solid	300_Prep	
885-9209-2	P2-B41	Total/NA	Solid	300_Prep	
885-9209-3	P2-B1	Total/NA	Solid	300_Prep	
885-9209-4	P2-B14	Total/NA	Solid	300_Prep	
885-9209-5	P2-B50	Total/NA	Solid	300_Prep	
885-9209-6	P2-B51	Total/NA	Solid	300_Prep	
885-9209-7	P2-B30	Total/NA	Solid	300_Prep	
885-9209-8	P2-B38	Total/NA	Solid	300_Prep	
885-9209-9	P2-B34	Total/NA	Solid	300_Prep	
885-9209-10	P2-B36	Total/NA	Solid	300_Prep	
885-9209-11	P2-B26	Total/NA	Solid	300_Prep	
885-9209-12	P2-B19	Total/NA	Solid	300_Prep	
885-9209-13	P2-W22	Total/NA	Solid	300_Prep	
885-9209-14	P2-W23	Total/NA	Solid	300_Prep	
885-9209-15	P2-W24	Total/NA	Solid	300_Prep	
885-9209-16	P2-W25	Total/NA	Solid	300_Prep	
885-9209-17	P2-W26	Total/NA	Solid	300_Prep	
885-9209-18	P2-W27	Total/NA	Solid	300_Prep	
885-9209-19	P2-W28	Total/NA	Solid	300_Prep	
MB 885-9910/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-9910/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-9209-18 MS	P2-W27	Total/NA	Solid	300_Prep	

Prep Batch: 9919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-20	P2-W29	Total/NA	Solid	300_Prep	
885-9209-21	P2-W30	Total/NA	Solid	300_Prep	
885-9209-22	P2-B18	Total/NA	Solid	300_Prep	
885-9209-23	P2-B16	Total/NA	Solid	300_Prep	
885-9209-24	P2-B53	Total/NA	Solid	300_Prep	
885-9209-25	P2-B54	Total/NA	Solid	300_Prep	
885-9209-26	P2-B55	Total/NA	Solid	300_Prep	
885-9209-27	P2-B15	Total/NA	Solid	300_Prep	
885-9209-28	P2-B43	Total/NA	Solid	300_Prep	
885-9209-29	P2-B47	Total/NA	Solid	300_Prep	
885-9209-30	P2-B52	Total/NA	Solid	300_Prep	
885-9209-31	P2-B6	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

HPLC/IC (Continued)

Prep Batch: 9919 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-32	P2-B5	Total/NA	Solid	300_Prep	
885-9209-33	PS-41	Total/NA	Solid	300_Prep	
885-9209-34	PS-42	Total/NA	Solid	300_Prep	
885-9209-35	PS-43	Total/NA	Solid	300_Prep	
885-9209-36	PS-44	Total/NA	Solid	300_Prep	
885-9209-37	PS-45	Total/NA	Solid	300_Prep	
885-9209-38	PS-46	Total/NA	Solid	300_Prep	
885-9209-39	PS-47	Total/NA	Solid	300_Prep	
MB 885-9919/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-9919/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 9964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-1	P2-B42	Total/NA	Solid	300.0	9910
885-9209-2	P2-B41	Total/NA	Solid	300.0	9910
885-9209-3	P2-B1	Total/NA	Solid	300.0	9910
885-9209-4	P2-B14	Total/NA	Solid	300.0	9910
885-9209-5	P2-B50	Total/NA	Solid	300.0	9910
885-9209-6	P2-B51	Total/NA	Solid	300.0	9910
885-9209-7	P2-B30	Total/NA	Solid	300.0	9910
885-9209-8	P2-B38	Total/NA	Solid	300.0	9910
885-9209-9	P2-B34	Total/NA	Solid	300.0	9910
885-9209-10	P2-B36	Total/NA	Solid	300.0	9910
885-9209-11	P2-B26	Total/NA	Solid	300.0	9910
885-9209-12	P2-B19	Total/NA	Solid	300.0	9910
885-9209-13	P2-W22	Total/NA	Solid	300.0	9910
885-9209-14	P2-W23	Total/NA	Solid	300.0	9910
885-9209-15	P2-W24	Total/NA	Solid	300.0	9910
885-9209-16	P2-W25	Total/NA	Solid	300.0	9910
885-9209-17	P2-W26	Total/NA	Solid	300.0	9910
885-9209-18	P2-W27	Total/NA	Solid	300.0	9910
885-9209-19	P2-W28	Total/NA	Solid	300.0	9910
885-9209-20	P2-W29	Total/NA	Solid	300.0	9919
885-9209-21	P2-W30	Total/NA	Solid	300.0	9919
885-9209-22	P2-B18	Total/NA	Solid	300.0	9919
885-9209-23	P2-B16	Total/NA	Solid	300.0	9919
885-9209-24	P2-B53	Total/NA	Solid	300.0	9919
885-9209-25	P2-B54	Total/NA	Solid	300.0	9919
885-9209-26	P2-B55	Total/NA	Solid	300.0	9919
885-9209-27	P2-B15	Total/NA	Solid	300.0	9919
885-9209-28	P2-B43	Total/NA	Solid	300.0	9919
885-9209-29	P2-B47	Total/NA	Solid	300.0	9919
885-9209-30	P2-B52	Total/NA	Solid	300.0	9919
885-9209-31	P2-B6	Total/NA	Solid	300.0	9919
885-9209-32	P2-B5	Total/NA	Solid	300.0	9919
885-9209-33	PS-41	Total/NA	Solid	300.0	9919
885-9209-34	PS-42	Total/NA	Solid	300.0	9919
885-9209-35	PS-43	Total/NA	Solid	300.0	9919
885-9209-36	PS-44	Total/NA	Solid	300.0	9919
885-9209-37	PS-45	Total/NA	Solid	300.0	9919
MB 885-9910/1-A	Method Blank	Total/NA	Solid	300.0	9910

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

HPLC/IC (Continued)

Analysis Batch: 9964 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-9919/1-A	Method Blank	Total/NA	Solid	300.0	9919
LCS 885-9910/2-A	Lab Control Sample	Total/NA	Solid	300.0	9910
LCS 885-9919/2-A	Lab Control Sample	Total/NA	Solid	300.0	9919
885-9209-18 MS	P2-W27	Total/NA	Solid	300.0	9910

Prep Batch: 9973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-40	PS-48	Total/NA	Solid	300_Prep	
885-9209-41	PS-49	Total/NA	Solid	300_Prep	
885-9209-42	PS-50	Total/NA	Solid	300_Prep	
885-9209-43	PS-51	Total/NA	Solid	300_Prep	
MB 885-9973/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-9973/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 9985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-44	PS-52	Total/NA	Solid	300_Prep	
885-9209-45	PS-53	Total/NA	Solid	300_Prep	
885-9209-46	P2-B25	Total/NA	Solid	300_Prep	
885-9209-47	P2-B33	Total/NA	Solid	300_Prep	
885-9209-48	P2-B21	Total/NA	Solid	300_Prep	
885-9209-49	P2-B7	Total/NA	Solid	300_Prep	
885-9209-50	PS-17A	Total/NA	Solid	300_Prep	
MB 885-9985/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-9985/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 9995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-9973/1-A	Method Blank	Total/NA	Solid	300.0	9973
LCS 885-9973/2-A	Lab Control Sample	Total/NA	Solid	300.0	9973

Analysis Batch: 10026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-38	PS-46	Total/NA	Solid	300.0	9919
885-9209-39	PS-47	Total/NA	Solid	300.0	9919

Analysis Batch: 10037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-44	PS-52	Total/NA	Solid	300.0	9985
885-9209-45	PS-53	Total/NA	Solid	300.0	9985
885-9209-46	P2-B25	Total/NA	Solid	300.0	9985
885-9209-47	P2-B33	Total/NA	Solid	300.0	9985
885-9209-48	P2-B21	Total/NA	Solid	300.0	9985
885-9209-49	P2-B7	Total/NA	Solid	300.0	9985
885-9209-50	PS-17A	Total/NA	Solid	300.0	9985
MB 885-10037/34	Method Blank	Total/NA	Solid	300.0	
MB 885-9985/1-A	Method Blank	Total/NA	Solid	300.0	9985
LCS 885-9985/2-A	Lab Control Sample	Total/NA	Solid	300.0	9985
MRL 885-10037/33	Lab Control Sample	Total/NA	Solid	300.0	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

HPLC/IC

Analysis Batch: 10041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9209-40	PS-48	Total/NA	Solid	300.0	9973
885-9209-41	PS-49	Total/NA	Solid	300.0	9973
885-9209-42	PS-50	Total/NA	Solid	300.0	9973
885-9209-43	PS-51	Total/NA	Solid	300.0	9973

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B42
Date Collected: 08/02/24 09:00
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 01:42
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 01:42
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 12:27
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 12:58

Client Sample ID: P2-B41
Date Collected: 08/02/24 09:04
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 02:52
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 02:52
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 12:38
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 13:11

Client Sample ID: P2-B1
Date Collected: 08/02/24 09:10
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 04:02
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 04:02
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 12:48
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 13:24

Client Sample ID: P2-B14
Date Collected: 08/02/24 09:12
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 04:26

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B14
Date Collected: 08/02/24 09:12
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 04:26
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 12:59
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 13:37

Client Sample ID: P2-B50
Date Collected: 08/02/24 09:14
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 04:49
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 04:49
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 13:10
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 13:50

Client Sample ID: P2-B51
Date Collected: 08/02/24 09:20
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 05:12
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 05:12
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 13:21
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 14:03

Client Sample ID: P2-B30
Date Collected: 08/02/24 09:26
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 05:36
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 05:36

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B30
Date Collected: 08/02/24 09:26
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 13:32
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 14:16

Client Sample ID: P2-B38
Date Collected: 08/02/24 09:40
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 05:59
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 05:59
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 13:42
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 15:20

Client Sample ID: P2-B34
Date Collected: 08/02/24 09:48
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 06:23
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 06:23
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 13:53
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 15:32

Client Sample ID: P2-B36
Date Collected: 08/02/24 09:50
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 06:46
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 06:46
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 14:29

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B36
Date Collected: 08/02/24 09:50
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 15:45

Client Sample ID: P2-B26
Date Collected: 08/02/24 09:54
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 07:33
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 07:33
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 14:39
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 15:58

Client Sample ID: P2-B19
Date Collected: 08/02/24 09:56
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 07:56
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 07:56
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 15:01
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 16:11

Client Sample ID: P2-W22
Date Collected: 08/02/24 10:20
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 08:20
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 08:20
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 15:12
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 16:24

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-W23
Date Collected: 08/02/24 10:22
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 08:44
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 08:44
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 15:23
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 16:37

Client Sample ID: P2-W24
Date Collected: 08/02/24 10:24
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 09:07
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 09:07
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 15:34
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 16:50

Client Sample ID: P2-W25
Date Collected: 08/02/24 10:30
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 09:31
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 09:31
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 15:45
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 17:28

Client Sample ID: P2-W26
Date Collected: 08/02/24 10:32
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 09:54

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-W26
Date Collected: 08/02/24 10:32
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 09:54
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 15:56
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 17:41

Client Sample ID: P2-W27
Date Collected: 08/02/24 10:34
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 10:17
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 10:17
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 16:07
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 17:54

Client Sample ID: P2-W28
Date Collected: 08/02/24 10:40
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 10:41
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 10:41
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 16:18
Total/NA	Prep	300_Prep			9910	JT	EET ALB	08/08/24 07:48
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 18:32

Client Sample ID: P2-W29
Date Collected: 08/02/24 10:44
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 11:05
Total/NA	Prep	5030C			9803	JP	EET ALB	08/06/24 11:08
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 11:05

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-W29
Date Collected: 08/02/24 10:44
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			9887	EM	EET ALB	08/07/24 14:12
Total/NA	Analysis	8015M/D		1	10018	EM	EET ALB	08/08/24 16:29
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 19:11

Client Sample ID: P2-W30
Date Collected: 08/02/24 10:46
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 13:25
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 13:25
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 21:21
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 19:24

Client Sample ID: P2-B18
Date Collected: 08/02/24 11:00
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 14:36
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 14:36
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 21:49
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 20:54

Client Sample ID: P2-B16
Date Collected: 08/02/24 11:10
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 15:46
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 15:46
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 22:03

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B16
Date Collected: 08/02/24 11:10
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 21:07

Client Sample ID: P2-B53
Date Collected: 08/02/24 11:12
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 16:10
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 16:10
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 22:16
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 21:20

Client Sample ID: P2-B54
Date Collected: 08/02/24 11:14
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 16:33
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 16:33
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 22:30
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 21:33

Client Sample ID: P2-B55
Date Collected: 08/02/24 11:18
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 16:57
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 16:57
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 22:43
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 21:45

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B15
Date Collected: 08/02/24 11:20
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 17:20
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 17:20
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 22:57
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 21:58

Client Sample ID: P2-B43
Date Collected: 08/02/24 11:24
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 17:44
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 17:44
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 23:11
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 22:37

Client Sample ID: P2-B47
Date Collected: 08/02/24 11:26
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 18:07
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 18:07
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 23:25
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 22:50

Client Sample ID: P2-B52
Date Collected: 08/02/24 11:30
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 18:31

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B52
Date Collected: 08/02/24 11:30
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 18:31
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 23:39
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 23:03

Client Sample ID: P2-B6
Date Collected: 08/02/24 11:36
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 19:18
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 19:18
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 23:53
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 23:16

Client Sample ID: P2-B5
Date Collected: 08/02/24 11:40
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 19:41
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 19:41
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/09/24 00:06
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 23:29

Client Sample ID: PS-41
Date Collected: 08/02/24 13:10
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 20:04
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 20:04

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-41
Date Collected: 08/02/24 13:10
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/09/24 00:34
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 23:41

Client Sample ID: PS-42
Date Collected: 08/02/24 13:12
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 20:28
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 20:28
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/09/24 00:47
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/08/24 23:54

Client Sample ID: PS-43
Date Collected: 08/02/24 13:16
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 20:51
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 20:51
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/09/24 01:01
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/09/24 00:07

Client Sample ID: PS-44
Date Collected: 08/02/24 13:20
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 21:15
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 21:15
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9997	KR	EET ALB	08/09/24 19:12

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-44
Date Collected: 08/02/24 13:20
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/09/24 00:20

Client Sample ID: PS-45
Date Collected: 08/02/24 14:00
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 21:38
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 21:38
Total/NA	Prep	SHAKE			10053	KR	EET ALB	08/12/24 09:07
Total/NA	Analysis	8015M/D		1	10076	KR	EET ALB	08/12/24 15:34
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	9964	MA	EET ALB	08/09/24 00:33

Client Sample ID: PS-46
Date Collected: 08/02/24 14:02
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 22:01
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 22:01
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9998	KR	EET ALB	08/09/24 13:11
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	10026	RC	EET ALB	08/09/24 12:04

Client Sample ID: PS-47
Date Collected: 08/02/24 14:06
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 22:25
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 22:25
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9998	KR	EET ALB	08/09/24 13:24
Total/NA	Prep	300_Prep			9919	JT	EET ALB	08/08/24 08:15
Total/NA	Analysis	300.0		20	10026	RC	EET ALB	08/09/24 12:17

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-48
Date Collected: 08/02/24 14:08
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8015M/D		1	10071	JP	EET ALB	08/11/24 22:48
Total/NA	Prep	5030C			9809	JP	EET ALB	08/06/24 12:31
Total/NA	Analysis	8021B		1	10072	JP	EET ALB	08/11/24 22:48
Total/NA	Prep	SHAKE			9899	KR	EET ALB	08/07/24 15:58
Total/NA	Analysis	8015M/D		1	9998	KR	EET ALB	08/09/24 13:37
Total/NA	Prep	300_Prep			9973	RC	EET ALB	08/08/24 16:34
Total/NA	Analysis	300.0		20	10041	RC	EET ALB	08/09/24 16:09

Client Sample ID: PS-49
Date Collected: 08/02/24 14:10
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8015M/D		1	10169	JP	EET ALB	08/12/24 12:25
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8021B		1	10171	JP	EET ALB	08/12/24 12:25
Total/NA	Prep	SHAKE			9936	KR	EET ALB	08/08/24 10:20
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 16:51
Total/NA	Prep	300_Prep			9973	RC	EET ALB	08/08/24 16:34
Total/NA	Analysis	300.0		20	10041	RC	EET ALB	08/09/24 16:24

Client Sample ID: PS-50
Date Collected: 08/02/24 14:20
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8015M/D		1	10169	JP	EET ALB	08/12/24 13:36
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8021B		1	10171	JP	EET ALB	08/12/24 13:36
Total/NA	Prep	SHAKE			9936	KR	EET ALB	08/08/24 10:20
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 17:04
Total/NA	Prep	300_Prep			9973	RC	EET ALB	08/08/24 16:34
Total/NA	Analysis	300.0		20	10041	RC	EET ALB	08/09/24 17:09

Client Sample ID: PS-51
Date Collected: 08/02/24 14:24
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8015M/D		1	10169	JP	EET ALB	08/12/24 14:47

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: PS-51
Date Collected: 08/02/24 14:24
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8021B		1	10171	JP	EET ALB	08/12/24 14:47
Total/NA	Prep	SHAKE			9936	KR	EET ALB	08/08/24 10:20
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 17:16
Total/NA	Prep	300_Prep			9973	RC	EET ALB	08/08/24 16:34
Total/NA	Analysis	300.0		20	10041	RC	EET ALB	08/09/24 17:24

Client Sample ID: PS-52
Date Collected: 08/02/24 14:30
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8015M/D		1	10169	JP	EET ALB	08/12/24 15:11
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8021B		1	10171	JP	EET ALB	08/12/24 15:11
Total/NA	Prep	SHAKE			9936	KR	EET ALB	08/08/24 10:20
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 17:29
Total/NA	Prep	300_Prep			9985	EH	EET ALB	08/09/24 09:54
Total/NA	Analysis	300.0		20	10037	JT	EET ALB	08/09/24 13:27

Client Sample ID: PS-53
Date Collected: 08/02/24 14:32
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8015M/D		1	10169	JP	EET ALB	08/12/24 15:34
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8021B		1	10171	JP	EET ALB	08/12/24 15:34
Total/NA	Prep	SHAKE			9936	KR	EET ALB	08/08/24 10:20
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 17:42
Total/NA	Prep	300_Prep			9985	EH	EET ALB	08/09/24 09:54
Total/NA	Analysis	300.0		20	10037	JT	EET ALB	08/09/24 14:18

Client Sample ID: P2-B25
Date Collected: 08/02/24 10:02
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8015M/D		1	10169	JP	EET ALB	08/12/24 15:58
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8021B		1	10171	JP	EET ALB	08/12/24 15:58

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B25
Date Collected: 08/02/24 10:02
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			9936	KR	EET ALB	08/08/24 10:20
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 17:55
Total/NA	Prep	300_Prep			9985	EH	EET ALB	08/09/24 09:54
Total/NA	Analysis	300.0		20	10037	JT	EET ALB	08/09/24 14:30

Client Sample ID: P2-B33
Date Collected: 08/02/24 10:08
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8015M/D		1	10169	JP	EET ALB	08/12/24 16:22
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8021B		1	10171	JP	EET ALB	08/12/24 16:22
Total/NA	Prep	SHAKE			9936	KR	EET ALB	08/08/24 10:20
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 18:08
Total/NA	Prep	300_Prep			9985	EH	EET ALB	08/09/24 09:54
Total/NA	Analysis	300.0		20	10037	JT	EET ALB	08/09/24 14:43

Client Sample ID: P2-B21
Date Collected: 08/02/24 10:10
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8015M/D		1	10169	JP	EET ALB	08/12/24 16:46
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8021B		1	10171	JP	EET ALB	08/12/24 16:46
Total/NA	Prep	SHAKE			9936	KR	EET ALB	08/08/24 10:20
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 18:36
Total/NA	Prep	300_Prep			9985	EH	EET ALB	08/09/24 09:54
Total/NA	Analysis	300.0		20	10037	JT	EET ALB	08/09/24 15:20

Client Sample ID: P2-B7
Date Collected: 08/02/24 10:12
Date Received: 08/06/24 07:30

Lab Sample ID: 885-9209-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8015M/D		1	10169	JP	EET ALB	08/12/24 17:10
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8021B		1	10171	JP	EET ALB	08/12/24 17:10
Total/NA	Prep	SHAKE			9936	KR	EET ALB	08/08/24 10:20
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 18:50

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9209-1

Client Sample ID: P2-B7

Lab Sample ID: 885-9209-49
Matrix: Solid
Date Collected: 08/02/24 10:12
Date Received: 08/06/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			9985	EH	EET ALB	08/09/24 09:54
Total/NA	Analysis	300.0		20	10037	JT	EET ALB	08/09/24 15:32

Client Sample ID: PS-17A

Lab Sample ID: 885-9209-50
Matrix: Solid
Date Collected: 08/02/24 14:34
Date Received: 08/06/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8015M/D		1	10169	JP	EET ALB	08/12/24 17:33
Total/NA	Prep	5030C			9812	AT	EET ALB	08/06/24 13:48
Total/NA	Analysis	8021B		1	10171	JP	EET ALB	08/12/24 17:33
Total/NA	Prep	SHAKE			9936	KR	EET ALB	08/08/24 10:20
Total/NA	Analysis	8015M/D		1	9966	KR	EET ALB	08/08/24 19:04
Total/NA	Prep	300_Prep			9985	EH	EET ALB	08/09/24 09:54
Total/NA	Analysis	300.0		20	10037	JT	EET ALB	08/09/24 16:09

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-9209-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABOR
4901 Hawkins NE - Albuquerque, NM 8710
Tel. 505-345-3975 Fax 505-345-4107

885-9209 COC

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☒ Rush 5 DAY TAT

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☒ Yes ☐ No

# of Coolers: 2 (4°C)

Cooler Temp(including CF): 0.4 -0.1 = 0.3 °C
0.3 -0.1 = 0.2 °C

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/2/24	0900	SOIL	P2-B42	1x4oz Jar	ICE	1	X	X	X
	0904		P2-B41	"	"	2			
	0910		P2-B1	"	"	3			
	0912		P2-B14	"	"	4			
	0914		P2-B50	"	"	5			
	0920		P2-B51	"	"	6			
	0926		P2-B30	"	"	7			
	0940		P2-B38	"	"	8			
	0948		P2-B34	"	"	9			
	0950		P2-B36	"	"	10			
	0954		P2-B26	"	"	11			
	0956		P2-B19	"	"	12			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8/5/24	800				8/5/24	800
8/5/24	1900			Courier	8/6/24	7:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM
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Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 0.4 -0.1 = 0.3 °C, 0.3 -0.1 = 0.2 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/2/24	1020	SOIL	[redacted] P2-W22	1x4oz Jar	ICE	13	X	X	X
	1022		P2-W23			14			
	1024		P2-W24			15			
	1030		P2-W25			16			
	1032		P2-W26			17			
	1034		P2-W27			18			
	1040		P2-W28			19			
	1044		P2-W29			20			
	1046		P2-W30			21			
	1100		P2-B18			22			
	1110		P2-B16			23			
↓	1112	↓	P2-B53	↓	↓	24	↓	↓	↓

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/5/24	800	[signature]	[signature]		8/5/24	800
8/5/24	1900	[signature]	[signature]	Courier	8/6/24	7:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Chain-of-Custody Record

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Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No 40°

# of Coolers: 1 0.4 - 0.1 = 0.3

Cooler Temp(including CF): 0.5 - 0.1 = 0.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/2/24	1114	SOIL	P2-B54	1x4oz Jar	ICE	25	X	X	X
	38		P2-B55			26			
	1120		P2-B15			27			
	1124		P2-B43			28			
	1126		P2-B47			29			
	1130		P2-B52			30			
	1136		P2-B6			31			
	1140		P2-B5			32			
	1310		PS-41			33			
	1312		PS-42			34			
	1316		PS-43			35			
	1320		PS-44			36			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/5/24	800				8/5/24	800
8/5/24	1960			courier	8/6/24	7:30

Remarks: Bill to EOG Artesia

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Chain-of-Custody Record

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Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☒ **Rush** 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☒ Yes ☐ No 100%

# of Coolers: 2 0.4 - 0.1 = 0.3 ~

Cooler Temp(including CF): 0.3 - 0.1 = 0.2 ~

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/2/24	1400	SOIL	PS-45	1x4oz Jar	ICE	37	X	X	X
	1402		PS-46			38			
	1404		PS-47			39			
	1408		PS-48			40			
	1410		PS-49			41			
	1420		PS-50			42			
	1424		PS-51			43			
	1430		PS-52			44			
	1432		PS-53			45			
	1002		P2-B 25			46			
	1008		P2-B 33			47			
	1010		P2-B21			48			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/5/24	800				8/5/24	800
8/5/24	1900			Courier	8/6/24	7:30

Remarks: Bill to EOG Artesia

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Received by OCD: 6/19/2025 8:41:42 AM

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Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 2 0.4 -0.1 = 0.3 deg

Cooler Temp(including CF): 0.3 -0.1 = 0.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/2/24	1012	SOIL	P2-B 7	1x4oz Jar	ICE	49	X	X	X
"	1434	"	PS-17A	"	"	50	"	"	"

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/5/24	800				8/5/24	800
8/5/24	1900			courier	8/6/24	7:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be ~~subcontracted to other accredited laboratories~~. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-9209-1

Login Number: 9209 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 8/23/2024 1:34:32 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-9933-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

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Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-9933-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-9933-1
Project/Site: Roy SWD #3

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc Job ID: 885-9933-1
Project: Roy SWD #3

Job ID: 885-9933-1 Eurofins Albuquerque

Job Narrative
885-9933-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/15/2024 7:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-10594 recovered outside acceptance criteria, low biased, for Di-n-octyl phthalate (Surr). Samples with low surrogate will be re-ran. The following samples are associated P2-B49 (885-9933-12), P2-B48 (885-9933-13), P2-B2 (885-9933-14), P2-B3 (885-9933-15), P2-B4 (885-9933-16), PS-55 (885-9933-17), PS-56 (885-9933-18), PS-57 (885-9933-19), PS-58 (885-9933-20), PS-59 (885-9933-21), (CCV 885-10594/26), (CCV 885-10594/38), (CCV 885-10594/48), (LCS 885-10566/2-A), (MB 885-10566/1-A), (885-10040-A-9-D) and (885-10040-A-9-E MS).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B20

Date Collected: 08/13/24 13:20
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-1
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		08/15/24 17:13	08/17/24 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*08/15/24 17:13*	*08/17/24 00:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/15/24 17:13	08/17/24 00:16	1
Ethylbenzene	ND		0.046		mg/Kg		08/15/24 17:13	08/17/24 00:16	1
Toluene	ND		0.046		mg/Kg		08/15/24 17:13	08/17/24 00:16	1
Xylenes, Total	ND		0.093		mg/Kg		08/15/24 17:13	08/17/24 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*08/15/24 17:13*	*08/17/24 00:16*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**19**		9.4		mg/Kg		08/19/24 13:12	08/20/24 02:03	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/19/24 13:12	08/20/24 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*08/19/24 13:12*	*08/20/24 02:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		60		mg/Kg		08/19/24 15:11	08/19/24 18:02	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B23

Date Collected: 08/13/24 13:22
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/15/24 17:13	08/17/24 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*08/15/24 17:13*	*08/17/24 00:59*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 17:13	08/17/24 00:59	1
Ethylbenzene	ND		0.050		mg/Kg		08/15/24 17:13	08/17/24 00:59	1
Toluene	ND		0.050		mg/Kg		08/15/24 17:13	08/17/24 00:59	1
Xylenes, Total	ND		0.099		mg/Kg		08/15/24 17:13	08/17/24 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*08/15/24 17:13*	*08/17/24 00:59*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		08/19/24 13:12	08/20/24 02:28	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/19/24 13:12	08/20/24 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*08/19/24 13:12*	*08/20/24 02:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		60		mg/Kg		08/19/24 15:11	08/19/24 18:14	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B32

Date Collected: 08/13/24 13:24
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/15/24 17:13	08/17/24 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/15/24 17:13*	*08/17/24 01:21*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 17:13	08/17/24 01:21	1
Ethylbenzene	ND		0.048		mg/Kg		08/15/24 17:13	08/17/24 01:21	1
Toluene	ND		0.048		mg/Kg		08/15/24 17:13	08/17/24 01:21	1
Xylenes, Total	ND		0.095		mg/Kg		08/15/24 17:13	08/17/24 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*08/15/24 17:13*	*08/17/24 01:21*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		08/19/24 13:12	08/20/24 02:52	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		08/19/24 13:12	08/20/24 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*08/19/24 13:12*	*08/20/24 02:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**370**		60		mg/Kg		08/19/24 15:11	08/19/24 18:26	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B35

Date Collected: 08/13/24 13:26
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		08/15/24 17:13	08/17/24 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*08/15/24 17:13*	*08/17/24 01:43*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/15/24 17:13	08/17/24 01:43	1
Ethylbenzene	ND		0.046		mg/Kg		08/15/24 17:13	08/17/24 01:43	1
Toluene	ND		0.046		mg/Kg		08/15/24 17:13	08/17/24 01:43	1
Xylenes, Total	ND		0.092		mg/Kg		08/15/24 17:13	08/17/24 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*08/15/24 17:13*	*08/17/24 01:43*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		08/19/24 13:12	08/20/24 03:17	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/19/24 13:12	08/20/24 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*08/19/24 13:12*	*08/20/24 03:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**		60		mg/Kg		08/19/24 15:11	08/19/24 18:39	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B29

Date Collected: 08/13/24 13:28
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		08/15/24 17:13	08/17/24 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*35 - 166*	*08/15/24 17:13*	*08/17/24 02:05*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/15/24 17:13	08/17/24 02:05	1
Ethylbenzene	ND		0.047		mg/Kg		08/15/24 17:13	08/17/24 02:05	1
Toluene	ND		0.047		mg/Kg		08/15/24 17:13	08/17/24 02:05	1
Xylenes, Total	ND		0.094		mg/Kg		08/15/24 17:13	08/17/24 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*08/15/24 17:13*	*08/17/24 02:05*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/19/24 13:12	08/20/24 03:41	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/19/24 13:12	08/20/24 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*08/19/24 13:12*	*08/20/24 03:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**320**		60		mg/Kg		08/19/24 15:11	08/19/24 18:51	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B37

Date Collected: 08/13/24 13:30
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/15/24 17:13	08/17/24 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*35 - 166*	*08/15/24 17:13*	*08/17/24 02:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 17:13	08/17/24 02:26	1
Ethylbenzene	ND		0.049		mg/Kg		08/15/24 17:13	08/17/24 02:26	1
Toluene	ND		0.049		mg/Kg		08/15/24 17:13	08/17/24 02:26	1
Xylenes, Total	ND		0.097		mg/Kg		08/15/24 17:13	08/17/24 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*08/15/24 17:13*	*08/17/24 02:26*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/19/24 13:12	08/20/24 04:29	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/19/24 13:12	08/20/24 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*08/19/24 13:12*	*08/20/24 04:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		60		mg/Kg		08/19/24 15:11	08/19/24 19:03	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B39

Date Collected: 08/13/24 13:40
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		08/15/24 17:13	08/17/24 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*35 - 166*	*08/15/24 17:13*	*08/17/24 02:48*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 17:13	08/17/24 02:48	1
Ethylbenzene	ND		0.047		mg/Kg		08/15/24 17:13	08/17/24 02:48	1
Toluene	ND		0.047		mg/Kg		08/15/24 17:13	08/17/24 02:48	1
Xylenes, Total	ND		0.095		mg/Kg		08/15/24 17:13	08/17/24 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*08/15/24 17:13*	*08/17/24 02:48*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		08/19/24 13:12	08/20/24 04:53	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/19/24 13:12	08/20/24 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*08/19/24 13:12*	*08/20/24 04:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**650**		60		mg/Kg		08/19/24 15:11	08/19/24 20:05	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B40

Date Collected: 08/13/24 13:42
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		08/15/24 17:13	08/17/24 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*35 - 166*	*08/15/24 17:13*	*08/17/24 03:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/15/24 17:13	08/17/24 03:10	1
Ethylbenzene	ND		0.047		mg/Kg		08/15/24 17:13	08/17/24 03:10	1
Toluene	ND		0.047		mg/Kg		08/15/24 17:13	08/17/24 03:10	1
Xylenes, Total	ND		0.093		mg/Kg		08/15/24 17:13	08/17/24 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*08/15/24 17:13*	*08/17/24 03:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**170**		9.9		mg/Kg		08/19/24 13:12	08/20/24 05:17	1
Motor Oil Range Organics [C28-C40]	**210**		49		mg/Kg		08/19/24 13:12	08/20/24 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*08/19/24 13:12*	*08/20/24 05:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**430**		60		mg/Kg		08/19/24 15:11	08/19/24 20:17	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B44

Date Collected: 08/13/24 13:44
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/15/24 17:13	08/17/24 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*08/15/24 17:13*	*08/17/24 03:31*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 17:13	08/17/24 03:31	1
Ethylbenzene	ND		0.048		mg/Kg		08/15/24 17:13	08/17/24 03:31	1
Toluene	ND		0.048		mg/Kg		08/15/24 17:13	08/17/24 03:31	1
Xylenes, Total	ND		0.097		mg/Kg		08/15/24 17:13	08/17/24 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*08/15/24 17:13*	*08/17/24 03:31*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		08/19/24 13:12	08/20/24 06:05	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		08/19/24 13:12	08/20/24 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*08/19/24 13:12*	*08/20/24 06:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		08/19/24 15:11	08/19/24 20:30	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B45

Date Collected: 08/13/24 13:46
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/15/24 17:13	08/17/24 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*08/15/24 17:13*	*08/17/24 03:53*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 17:13	08/17/24 03:53	1
Ethylbenzene	ND		0.050		mg/Kg		08/15/24 17:13	08/17/24 03:53	1
Toluene	ND		0.050		mg/Kg		08/15/24 17:13	08/17/24 03:53	1
Xylenes, Total	ND		0.10		mg/Kg		08/15/24 17:13	08/17/24 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*08/15/24 17:13*	*08/17/24 03:53*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		08/19/24 13:12	08/20/24 06:29	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/19/24 13:12	08/20/24 06:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*08/19/24 13:12*	*08/20/24 06:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**560**		60		mg/Kg		08/19/24 15:11	08/19/24 20:42	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B46

Date Collected: 08/13/24 14:00
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/15/24 17:13	08/17/24 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*35 - 166*	*08/15/24 17:13*	*08/17/24 04:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 17:13	08/17/24 04:15	1
Ethylbenzene	ND		0.049		mg/Kg		08/15/24 17:13	08/17/24 04:15	1
Toluene	ND		0.049		mg/Kg		08/15/24 17:13	08/17/24 04:15	1
Xylenes, Total	ND		0.099		mg/Kg		08/15/24 17:13	08/17/24 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*08/15/24 17:13*	*08/17/24 04:15*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/19/24 13:12	08/20/24 06:53	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/19/24 13:12	08/20/24 06:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*08/19/24 13:12*	*08/20/24 06:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000**		60		mg/Kg		08/19/24 15:11	08/19/24 20:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B49

Date Collected: 08/13/24 14:02
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-12

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/16/24 17:33	08/20/24 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*35 - 166*	*08/16/24 17:33*	*08/20/24 00:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/16/24 17:33	08/20/24 00:06	1
Ethylbenzene	ND		0.050		mg/Kg		08/16/24 17:33	08/20/24 00:06	1
Toluene	ND		0.050		mg/Kg		08/16/24 17:33	08/20/24 00:06	1
Xylenes, Total	ND		0.099		mg/Kg		08/16/24 17:33	08/20/24 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*08/16/24 17:33*	*08/20/24 00:06*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		08/20/24 08:28	08/20/24 19:58	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/20/24 08:28	08/20/24 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*65*		*62 - 134*	*08/20/24 08:28*	*08/20/24 19:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		60		mg/Kg		08/20/24 09:45	08/20/24 11:48	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B48

Date Collected: 08/13/24 14:04
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-13

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/16/24 17:33	08/20/24 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*08/16/24 17:33*	*08/20/24 01:12*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/16/24 17:33	08/20/24 01:12	1
Ethylbenzene	ND		0.050		mg/Kg		08/16/24 17:33	08/20/24 01:12	1
Toluene	ND		0.050		mg/Kg		08/16/24 17:33	08/20/24 01:12	1
Xylenes, Total	ND		0.10		mg/Kg		08/16/24 17:33	08/20/24 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*08/16/24 17:33*	*08/20/24 01:12*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		08/20/24 08:28	08/20/24 20:12	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/20/24 08:28	08/20/24 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*76*		*62 - 134*	*08/20/24 08:28*	*08/20/24 20:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**450**		60		mg/Kg		08/20/24 09:45	08/20/24 12:34	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B2

Date Collected: 08/13/24 14:06
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/16/24 17:33	08/20/24 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*08/16/24 17:33*	*08/20/24 02:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/16/24 17:33	08/20/24 02:17	1
Ethylbenzene	ND		0.048		mg/Kg		08/16/24 17:33	08/20/24 02:17	1
Toluene	ND		0.048		mg/Kg		08/16/24 17:33	08/20/24 02:17	1
Xylenes, Total	ND		0.095		mg/Kg		08/16/24 17:33	08/20/24 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*08/16/24 17:33*	*08/20/24 02:17*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		08/20/24 08:28	08/20/24 20:25	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		08/20/24 08:28	08/20/24 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*69*		*62 - 134*	*08/20/24 08:28*	*08/20/24 20:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**380**		60		mg/Kg		08/20/24 09:45	08/20/24 12:49	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B3

Lab Sample ID: 885-9933-15

Date Collected: 08/13/24 14:08

Matrix: Solid

Date Received: 08/15/24 07:50

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/16/24 17:33	08/20/24 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*08/16/24 17:33*	*08/20/24 02:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/16/24 17:33	08/20/24 02:39	1
Ethylbenzene	ND		0.049		mg/Kg		08/16/24 17:33	08/20/24 02:39	1
Toluene	ND		0.049		mg/Kg		08/16/24 17:33	08/20/24 02:39	1
Xylenes, Total	ND		0.098		mg/Kg		08/16/24 17:33	08/20/24 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*08/16/24 17:33*	*08/20/24 02:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		08/20/24 08:28	08/20/24 20:39	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/20/24 08:28	08/20/24 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*08/20/24 08:28*	*08/20/24 20:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		60		mg/Kg		08/20/24 09:45	08/20/24 13:04	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B4

Date Collected: 08/13/24 14:10
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-16

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/16/24 17:33	08/20/24 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*08/16/24 17:33*	*08/20/24 03:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/16/24 17:33	08/20/24 03:00	1
Ethylbenzene	ND		0.049		mg/Kg		08/16/24 17:33	08/20/24 03:00	1
Toluene	ND		0.049		mg/Kg		08/16/24 17:33	08/20/24 03:00	1
Xylenes, Total	ND		0.098		mg/Kg		08/16/24 17:33	08/20/24 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*08/16/24 17:33*	*08/20/24 03:00*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/20/24 08:28	08/20/24 20:53	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/20/24 08:28	08/20/24 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*72*		*62 - 134*	*08/20/24 08:28*	*08/20/24 20:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		60		mg/Kg		08/20/24 09:45	08/20/24 13:50	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: PS-55

Date Collected: 08/13/24 14:20
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-17

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/16/24 17:33	08/20/24 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*35 - 166*	*08/16/24 17:33*	*08/20/24 03:22*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/16/24 17:33	08/20/24 03:22	1
Ethylbenzene	ND		0.049		mg/Kg		08/16/24 17:33	08/20/24 03:22	1
Toluene	ND		0.049		mg/Kg		08/16/24 17:33	08/20/24 03:22	1
Xylenes, Total	ND		0.097		mg/Kg		08/16/24 17:33	08/20/24 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*08/16/24 17:33*	*08/20/24 03:22*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/20/24 08:28	08/20/24 21:06	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/20/24 08:28	08/20/24 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*65*		*62 - 134*	*08/20/24 08:28*	*08/20/24 21:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		60		mg/Kg		08/20/24 09:45	08/20/24 14:05	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: PS-56

Date Collected: 08/13/24 14:24
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-18

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		08/16/24 17:33	08/20/24 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*08/16/24 17:33*	*08/20/24 03:44*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/16/24 17:33	08/20/24 03:44	1
Ethylbenzene	ND		0.047		mg/Kg		08/16/24 17:33	08/20/24 03:44	1
Toluene	ND		0.047		mg/Kg		08/16/24 17:33	08/20/24 03:44	1
Xylenes, Total	ND		0.094		mg/Kg		08/16/24 17:33	08/20/24 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*08/16/24 17:33*	*08/20/24 03:44*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/20/24 08:28	08/20/24 21:34	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/20/24 08:28	08/20/24 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*63*		*62 - 134*	*08/20/24 08:28*	*08/20/24 21:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**420**		60		mg/Kg		08/20/24 09:45	08/20/24 14:20	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: PS-57

Date Collected: 08/13/24 14:26
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-19

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/16/24 17:33	08/20/24 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*08/16/24 17:33*	*08/20/24 04:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/16/24 17:33	08/20/24 04:06	1
Ethylbenzene	ND		0.048		mg/Kg		08/16/24 17:33	08/20/24 04:06	1
Toluene	ND		0.048		mg/Kg		08/16/24 17:33	08/20/24 04:06	1
Xylenes, Total	ND		0.096		mg/Kg		08/16/24 17:33	08/20/24 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*08/16/24 17:33*	*08/20/24 04:06*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/20/24 08:28	08/20/24 21:47	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/20/24 08:28	08/20/24 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*70*		*62 - 134*	*08/20/24 08:28*	*08/20/24 21:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		60		mg/Kg		08/20/24 09:45	08/20/24 14:35	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: PS-58

Date Collected: 08/13/24 14:30
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-20

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/16/24 17:33	08/20/24 04:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*35 - 166*	*08/16/24 17:33*	*08/20/24 04:28*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/16/24 17:33	08/20/24 04:28	1
Ethylbenzene	ND		0.050		mg/Kg		08/16/24 17:33	08/20/24 04:28	1
Toluene	ND		0.050		mg/Kg		08/16/24 17:33	08/20/24 04:28	1
Xylenes, Total	ND		0.10		mg/Kg		08/16/24 17:33	08/20/24 04:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*08/16/24 17:33*	*08/20/24 04:28*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		08/20/24 08:28	08/20/24 22:01	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/20/24 08:28	08/20/24 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*73*		*62 - 134*	*08/20/24 08:28*	*08/20/24 22:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		60		mg/Kg		08/20/24 09:45	08/20/24 14:50	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: PS-59

Date Collected: 08/13/24 14:32
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-21

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/16/24 17:33	08/20/24 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*35 - 166*	*08/16/24 17:33*	*08/20/24 04:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/16/24 17:33	08/20/24 04:49	1
Ethylbenzene	ND		0.048		mg/Kg		08/16/24 17:33	08/20/24 04:49	1
Toluene	ND		0.048		mg/Kg		08/16/24 17:33	08/20/24 04:49	1
Xylenes, Total	ND		0.097		mg/Kg		08/16/24 17:33	08/20/24 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*08/16/24 17:33*	*08/20/24 04:49*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		08/20/24 08:28	08/20/24 22:15	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/20/24 08:28	08/20/24 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*08/20/24 08:28*	*08/20/24 22:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**690**		60		mg/Kg		08/20/24 09:45	08/20/24 15:36	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-10378/1-A
Matrix: Solid
Analysis Batch: 10519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10378

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/15/24 17:13	08/16/24 19:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*08/15/24 17:13*	*08/16/24 19:10*	*1*

Lab Sample ID: LCS 885-10378/2-A
Matrix: Solid
Analysis Batch: 10519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10378

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	28.4		mg/Kg		114	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*224*		*35 - 166*

Lab Sample ID: MB 885-10456/1-A
Matrix: Solid
Analysis Batch: 10586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10456

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/16/24 17:33	08/19/24 23:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*08/16/24 17:33*	*08/19/24 23:45*	*1*

Lab Sample ID: LCS 885-10456/2-A
Matrix: Solid
Analysis Batch: 10586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10456

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.9		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*223*		*35 - 166*

Lab Sample ID: 885-9933-12 MS
Matrix: Solid
Analysis Batch: 10586

Client Sample ID: P2-B49
Prep Type: Total/NA
Prep Batch: 10456

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	25.3		mg/Kg		101	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-9933-12 MS
Matrix: Solid
Analysis Batch: 10586

Client Sample ID: P2-B49
Prep Type: Total/NA
Prep Batch: 10456

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*214*		*35 - 166*

Lab Sample ID: 885-9933-12 MSD
Matrix: Solid
Analysis Batch: 10586

Client Sample ID: P2-B49
Prep Type: Total/NA
Prep Batch: 10456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	27.0		mg/Kg		108	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*222*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-10378/1-A
Matrix: Solid
Analysis Batch: 10522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10378

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 17:13	08/16/24 19:10	1
Ethylbenzene	ND		0.050		mg/Kg		08/15/24 17:13	08/16/24 19:10	1
Toluene	ND		0.050		mg/Kg		08/15/24 17:13	08/16/24 19:10	1
Xylenes, Total	ND		0.10		mg/Kg		08/15/24 17:13	08/16/24 19:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*08/15/24 17:13*	*08/16/24 19:10*	*1*

Lab Sample ID: LCS 885-10378/3-A
Matrix: Solid
Analysis Batch: 10522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10378

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.04		mg/Kg		104	70 - 130		
Ethylbenzene			1.00	1.04		mg/Kg		104	70 - 130		
Toluene			1.00	1.05		mg/Kg		105	70 - 130		
m&p-Xylene			2.00	2.08		mg/Kg		104	70 - 130		
o-Xylene			1.00	1.05		mg/Kg		105	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*

Lab Sample ID: MB 885-10456/1-A
Matrix: Solid
Analysis Batch: 10588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10456

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/16/24 17:33	08/19/24 23:45	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-10456/1-A
Matrix: Solid
Analysis Batch: 10588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10456

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.050		mg/Kg		08/16/24 17:33	08/19/24 23:45	1
Toluene	ND		0.050		mg/Kg		08/16/24 17:33	08/19/24 23:45	1
Xylenes, Total	ND		0.10		mg/Kg		08/16/24 17:33	08/19/24 23:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*08/16/24 17:33*	*08/19/24 23:45*	*1*

Lab Sample ID: LCS 885-10456/3-A
Matrix: Solid
Analysis Batch: 10588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10456

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.05		mg/Kg		105	70 - 130		
Ethylbenzene			1.00	1.05		mg/Kg		105	70 - 130		
Toluene			1.00	1.04		mg/Kg		104	70 - 130		
m&p-Xylene			2.00	2.07		mg/Kg		103	70 - 130		
o-Xylene			1.00	1.03		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*

Lab Sample ID: 885-9933-13 MS
Matrix: Solid
Analysis Batch: 10588

Client Sample ID: P2-B48
Prep Type: Total/NA
Prep Batch: 10456

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		1.00	1.04		mg/Kg		104	70 - 130		
Ethylbenzene	ND		1.00	1.03		mg/Kg		103	70 - 130		
Toluene	ND		1.00	1.04		mg/Kg		104	70 - 130		
m&p-Xylene	ND		2.00	2.04		mg/Kg		102	70 - 130		
o-Xylene	ND		1.00	1.02		mg/Kg		102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*

Lab Sample ID: 885-9933-13 MSD
Matrix: Solid
Analysis Batch: 10588

Client Sample ID: P2-B48
Prep Type: Total/NA
Prep Batch: 10456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.998	1.07		mg/Kg		107	70 - 130	2	20
Ethylbenzene	ND		0.998	1.07		mg/Kg		107	70 - 130	3	20
Toluene	ND		0.998	1.07		mg/Kg		108	70 - 130	3	20
m&p-Xylene	ND		2.00	2.11		mg/Kg		106	70 - 130	3	20
o-Xylene	ND		0.998	1.06		mg/Kg		106	70 - 130	4	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-9933-13 MSD
Matrix: Solid
Analysis Batch: 10588

Client Sample ID: P2-B48
Prep Type: Total/NA
Prep Batch: 10456

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-10517/1-A
Matrix: Solid
Analysis Batch: 10540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10517

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/19/24 13:12	08/20/24 01:14	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/19/24 13:12	08/20/24 01:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*08/19/24 13:12*	*08/20/24 01:14*	*1*

Lab Sample ID: LCS 885-10517/2-A
Matrix: Solid
Analysis Batch: 10540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10517

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	55.0		mg/Kg		110	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*

Lab Sample ID: MB 885-10566/1-A
Matrix: Solid
Analysis Batch: 10594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10566

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/20/24 08:28	08/20/24 19:31	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/20/24 08:28	08/20/24 19:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*76*		*62 - 134*	*08/20/24 08:28*	*08/20/24 19:31*	*1*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-10524/1-A
Matrix: Solid
Analysis Batch: 10575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10524

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		08/19/24 14:23	08/19/24 17:37	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-10524/2-A
Matrix: Solid
Analysis Batch: 10575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10524

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	27.9		mg/Kg		93	90 - 110		

Lab Sample ID: 885-9933-6 MS
Matrix: Solid
Analysis Batch: 10575

Client Sample ID: P2-B37
Prep Type: Total/NA
Prep Batch: 10524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1100		30.1	1130	4	mg/Kg		96	50 - 150		

Lab Sample ID: 885-9933-6 MSD
Matrix: Solid
Analysis Batch: 10575

Client Sample ID: P2-B37
Prep Type: Total/NA
Prep Batch: 10524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1100		29.8	1180	4	mg/Kg		261	50 - 150	4	20

Lab Sample ID: MB 885-10583/1-A
Matrix: Solid
Analysis Batch: 10616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10583

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		08/20/24 09:45	08/20/24 10:51	1

Lab Sample ID: LCS 885-10583/2-A
Matrix: Solid
Analysis Batch: 10616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10583

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.8		mg/Kg		99	90 - 110		

Lab Sample ID: 885-9933-12 MS
Matrix: Solid
Analysis Batch: 10616

Client Sample ID: P2-B49
Prep Type: Total/NA
Prep Batch: 10583

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	150		30.2	212	4	mg/Kg		196	50 - 150		

Lab Sample ID: 885-9933-12 MSD
Matrix: Solid
Analysis Batch: 10616

Client Sample ID: P2-B49
Prep Type: Total/NA
Prep Batch: 10583

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	150		29.9	193	4	mg/Kg		134	50 - 150	9	20

Lab Sample ID: 885-9933-20 MS
Matrix: Solid
Analysis Batch: 10616

Client Sample ID: PS-58
Prep Type: Total/NA
Prep Batch: 10583

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1100		29.9	1130	4	mg/Kg		69	50 - 150		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-9933-20 MSD
Matrix: Solid
Analysis Batch: 10616

Client Sample ID: PS-58
Prep Type: Total/NA
Prep Batch: 10583

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1100		30.1	1110	4	mg/Kg		0.1	50 - 150	2	20

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

GC VOA

Prep Batch: 10378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-1	P2-B20	Total/NA	Solid	5030C	
885-9933-2	P2-B23	Total/NA	Solid	5030C	
885-9933-3	P2-B32	Total/NA	Solid	5030C	
885-9933-4	P2-B35	Total/NA	Solid	5030C	
885-9933-5	P2-B29	Total/NA	Solid	5030C	
885-9933-6	P2-B37	Total/NA	Solid	5030C	
885-9933-7	P2-B39	Total/NA	Solid	5030C	
885-9933-8	P2-B40	Total/NA	Solid	5030C	
885-9933-9	P2-B44	Total/NA	Solid	5030C	
885-9933-10	P2-B45	Total/NA	Solid	5030C	
885-9933-11	P2-B46	Total/NA	Solid	5030C	
MB 885-10378/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-10378/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-10378/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 10456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-12	P2-B49	Total/NA	Solid	5030C	
885-9933-13	P2-B48	Total/NA	Solid	5030C	
885-9933-14	P2-B2	Total/NA	Solid	5030C	
885-9933-15	P2-B3	Total/NA	Solid	5030C	
885-9933-16	P2-B4	Total/NA	Solid	5030C	
885-9933-17	PS-55	Total/NA	Solid	5030C	
885-9933-18	PS-56	Total/NA	Solid	5030C	
885-9933-19	PS-57	Total/NA	Solid	5030C	
885-9933-20	PS-58	Total/NA	Solid	5030C	
885-9933-21	PS-59	Total/NA	Solid	5030C	
MB 885-10456/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-10456/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-10456/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-9933-12 MS	P2-B49	Total/NA	Solid	5030C	
885-9933-12 MSD	P2-B49	Total/NA	Solid	5030C	
885-9933-13 MS	P2-B48	Total/NA	Solid	5030C	
885-9933-13 MSD	P2-B48	Total/NA	Solid	5030C	

Analysis Batch: 10519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-1	P2-B20	Total/NA	Solid	8015M/D	10378
885-9933-2	P2-B23	Total/NA	Solid	8015M/D	10378
885-9933-3	P2-B32	Total/NA	Solid	8015M/D	10378
885-9933-4	P2-B35	Total/NA	Solid	8015M/D	10378
885-9933-5	P2-B29	Total/NA	Solid	8015M/D	10378
885-9933-6	P2-B37	Total/NA	Solid	8015M/D	10378
885-9933-7	P2-B39	Total/NA	Solid	8015M/D	10378
885-9933-8	P2-B40	Total/NA	Solid	8015M/D	10378
885-9933-9	P2-B44	Total/NA	Solid	8015M/D	10378
885-9933-10	P2-B45	Total/NA	Solid	8015M/D	10378
885-9933-11	P2-B46	Total/NA	Solid	8015M/D	10378
MB 885-10378/1-A	Method Blank	Total/NA	Solid	8015M/D	10378
LCS 885-10378/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10378

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

GC VOA

Analysis Batch: 10522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-1	P2-B20	Total/NA	Solid	8021B	10378
885-9933-2	P2-B23	Total/NA	Solid	8021B	10378
885-9933-3	P2-B32	Total/NA	Solid	8021B	10378
885-9933-4	P2-B35	Total/NA	Solid	8021B	10378
885-9933-5	P2-B29	Total/NA	Solid	8021B	10378
885-9933-6	P2-B37	Total/NA	Solid	8021B	10378
885-9933-7	P2-B39	Total/NA	Solid	8021B	10378
885-9933-8	P2-B40	Total/NA	Solid	8021B	10378
885-9933-9	P2-B44	Total/NA	Solid	8021B	10378
885-9933-10	P2-B45	Total/NA	Solid	8021B	10378
885-9933-11	P2-B46	Total/NA	Solid	8021B	10378
MB 885-10378/1-A	Method Blank	Total/NA	Solid	8021B	10378
LCS 885-10378/3-A	Lab Control Sample	Total/NA	Solid	8021B	10378

Analysis Batch: 10586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-12	P2-B49	Total/NA	Solid	8015M/D	10456
885-9933-13	P2-B48	Total/NA	Solid	8015M/D	10456
885-9933-14	P2-B2	Total/NA	Solid	8015M/D	10456
885-9933-15	P2-B3	Total/NA	Solid	8015M/D	10456
885-9933-16	P2-B4	Total/NA	Solid	8015M/D	10456
885-9933-17	PS-55	Total/NA	Solid	8015M/D	10456
885-9933-18	PS-56	Total/NA	Solid	8015M/D	10456
885-9933-19	PS-57	Total/NA	Solid	8015M/D	10456
885-9933-20	PS-58	Total/NA	Solid	8015M/D	10456
885-9933-21	PS-59	Total/NA	Solid	8015M/D	10456
MB 885-10456/1-A	Method Blank	Total/NA	Solid	8015M/D	10456
LCS 885-10456/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10456
885-9933-12 MS	P2-B49	Total/NA	Solid	8015M/D	10456
885-9933-12 MSD	P2-B49	Total/NA	Solid	8015M/D	10456

Analysis Batch: 10588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-12	P2-B49	Total/NA	Solid	8021B	10456
885-9933-13	P2-B48	Total/NA	Solid	8021B	10456
885-9933-14	P2-B2	Total/NA	Solid	8021B	10456
885-9933-15	P2-B3	Total/NA	Solid	8021B	10456
885-9933-16	P2-B4	Total/NA	Solid	8021B	10456
885-9933-17	PS-55	Total/NA	Solid	8021B	10456
885-9933-18	PS-56	Total/NA	Solid	8021B	10456
885-9933-19	PS-57	Total/NA	Solid	8021B	10456
885-9933-20	PS-58	Total/NA	Solid	8021B	10456
885-9933-21	PS-59	Total/NA	Solid	8021B	10456
MB 885-10456/1-A	Method Blank	Total/NA	Solid	8021B	10456
LCS 885-10456/3-A	Lab Control Sample	Total/NA	Solid	8021B	10456
885-9933-13 MS	P2-B48	Total/NA	Solid	8021B	10456
885-9933-13 MSD	P2-B48	Total/NA	Solid	8021B	10456

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

GC Semi VOA

Prep Batch: 10517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-1	P2-B20	Total/NA	Solid	SHAKE	
885-9933-2	P2-B23	Total/NA	Solid	SHAKE	
885-9933-3	P2-B32	Total/NA	Solid	SHAKE	
885-9933-4	P2-B35	Total/NA	Solid	SHAKE	
885-9933-5	P2-B29	Total/NA	Solid	SHAKE	
885-9933-6	P2-B37	Total/NA	Solid	SHAKE	
885-9933-7	P2-B39	Total/NA	Solid	SHAKE	
885-9933-8	P2-B40	Total/NA	Solid	SHAKE	
885-9933-9	P2-B44	Total/NA	Solid	SHAKE	
885-9933-10	P2-B45	Total/NA	Solid	SHAKE	
885-9933-11	P2-B46	Total/NA	Solid	SHAKE	
MB 885-10517/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-10517/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 10540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-1	P2-B20	Total/NA	Solid	8015M/D	10517
885-9933-2	P2-B23	Total/NA	Solid	8015M/D	10517
885-9933-3	P2-B32	Total/NA	Solid	8015M/D	10517
885-9933-4	P2-B35	Total/NA	Solid	8015M/D	10517
885-9933-5	P2-B29	Total/NA	Solid	8015M/D	10517
885-9933-6	P2-B37	Total/NA	Solid	8015M/D	10517
885-9933-7	P2-B39	Total/NA	Solid	8015M/D	10517
885-9933-8	P2-B40	Total/NA	Solid	8015M/D	10517
885-9933-9	P2-B44	Total/NA	Solid	8015M/D	10517
885-9933-10	P2-B45	Total/NA	Solid	8015M/D	10517
885-9933-11	P2-B46	Total/NA	Solid	8015M/D	10517
MB 885-10517/1-A	Method Blank	Total/NA	Solid	8015M/D	10517
LCS 885-10517/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10517

Prep Batch: 10566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-12	P2-B49	Total/NA	Solid	SHAKE	
885-9933-13	P2-B48	Total/NA	Solid	SHAKE	
885-9933-14	P2-B2	Total/NA	Solid	SHAKE	
885-9933-15	P2-B3	Total/NA	Solid	SHAKE	
885-9933-16	P2-B4	Total/NA	Solid	SHAKE	
885-9933-17	PS-55	Total/NA	Solid	SHAKE	
885-9933-18	PS-56	Total/NA	Solid	SHAKE	
885-9933-19	PS-57	Total/NA	Solid	SHAKE	
885-9933-20	PS-58	Total/NA	Solid	SHAKE	
885-9933-21	PS-59	Total/NA	Solid	SHAKE	
MB 885-10566/1-A	Method Blank	Total/NA	Solid	SHAKE	

Analysis Batch: 10594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-12	P2-B49	Total/NA	Solid	8015M/D	10566
885-9933-13	P2-B48	Total/NA	Solid	8015M/D	10566
885-9933-14	P2-B2	Total/NA	Solid	8015M/D	10566
885-9933-15	P2-B3	Total/NA	Solid	8015M/D	10566
885-9933-16	P2-B4	Total/NA	Solid	8015M/D	10566

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

GC Semi VOA (Continued)

Analysis Batch: 10594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-17	PS-55	Total/NA	Solid	8015M/D	10566
885-9933-18	PS-56	Total/NA	Solid	8015M/D	10566
885-9933-19	PS-57	Total/NA	Solid	8015M/D	10566
885-9933-20	PS-58	Total/NA	Solid	8015M/D	10566
885-9933-21	PS-59	Total/NA	Solid	8015M/D	10566
MB 885-10566/1-A	Method Blank	Total/NA	Solid	8015M/D	10566

HPLC/IC

Prep Batch: 10524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-1	P2-B20	Total/NA	Solid	300_Prep	
885-9933-2	P2-B23	Total/NA	Solid	300_Prep	
885-9933-3	P2-B32	Total/NA	Solid	300_Prep	
885-9933-4	P2-B35	Total/NA	Solid	300_Prep	
885-9933-5	P2-B29	Total/NA	Solid	300_Prep	
885-9933-6	P2-B37	Total/NA	Solid	300_Prep	
885-9933-7	P2-B39	Total/NA	Solid	300_Prep	
885-9933-8	P2-B40	Total/NA	Solid	300_Prep	
885-9933-9	P2-B44	Total/NA	Solid	300_Prep	
885-9933-10	P2-B45	Total/NA	Solid	300_Prep	
885-9933-11	P2-B46	Total/NA	Solid	300_Prep	
MB 885-10524/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-10524/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-9933-6 MS	P2-B37	Total/NA	Solid	300_Prep	
885-9933-6 MSD	P2-B37	Total/NA	Solid	300_Prep	

Analysis Batch: 10575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-1	P2-B20	Total/NA	Solid	300.0	10524
885-9933-2	P2-B23	Total/NA	Solid	300.0	10524
885-9933-3	P2-B32	Total/NA	Solid	300.0	10524
885-9933-4	P2-B35	Total/NA	Solid	300.0	10524
885-9933-5	P2-B29	Total/NA	Solid	300.0	10524
885-9933-6	P2-B37	Total/NA	Solid	300.0	10524
885-9933-7	P2-B39	Total/NA	Solid	300.0	10524
885-9933-8	P2-B40	Total/NA	Solid	300.0	10524
885-9933-9	P2-B44	Total/NA	Solid	300.0	10524
885-9933-10	P2-B45	Total/NA	Solid	300.0	10524
885-9933-11	P2-B46	Total/NA	Solid	300.0	10524
MB 885-10524/1-A	Method Blank	Total/NA	Solid	300.0	10524
LCS 885-10524/2-A	Lab Control Sample	Total/NA	Solid	300.0	10524
885-9933-6 MS	P2-B37	Total/NA	Solid	300.0	10524
885-9933-6 MSD	P2-B37	Total/NA	Solid	300.0	10524

Prep Batch: 10583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-12	P2-B49	Total/NA	Solid	300_Prep	
885-9933-13	P2-B48	Total/NA	Solid	300_Prep	
885-9933-14	P2-B2	Total/NA	Solid	300_Prep	
885-9933-15	P2-B3	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

HPLC/IC (Continued)

Prep Batch: 10583 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-16	P2-B4	Total/NA	Solid	300_Prep	
885-9933-17	PS-55	Total/NA	Solid	300_Prep	
885-9933-18	PS-56	Total/NA	Solid	300_Prep	
885-9933-19	PS-57	Total/NA	Solid	300_Prep	
885-9933-20	PS-58	Total/NA	Solid	300_Prep	
885-9933-21	PS-59	Total/NA	Solid	300_Prep	
MB 885-10583/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-10583/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-9933-12 MS	P2-B49	Total/NA	Solid	300_Prep	
885-9933-12 MSD	P2-B49	Total/NA	Solid	300_Prep	
885-9933-20 MS	PS-58	Total/NA	Solid	300_Prep	
885-9933-20 MSD	PS-58	Total/NA	Solid	300_Prep	

Analysis Batch: 10616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9933-12	P2-B49	Total/NA	Solid	300.0	10583
885-9933-13	P2-B48	Total/NA	Solid	300.0	10583
885-9933-14	P2-B2	Total/NA	Solid	300.0	10583
885-9933-15	P2-B3	Total/NA	Solid	300.0	10583
885-9933-16	P2-B4	Total/NA	Solid	300.0	10583
885-9933-17	PS-55	Total/NA	Solid	300.0	10583
885-9933-18	PS-56	Total/NA	Solid	300.0	10583
885-9933-19	PS-57	Total/NA	Solid	300.0	10583
885-9933-20	PS-58	Total/NA	Solid	300.0	10583
885-9933-21	PS-59	Total/NA	Solid	300.0	10583
MB 885-10583/1-A	Method Blank	Total/NA	Solid	300.0	10583
LCS 885-10583/2-A	Lab Control Sample	Total/NA	Solid	300.0	10583
885-9933-12 MS	P2-B49	Total/NA	Solid	300.0	10583
885-9933-12 MSD	P2-B49	Total/NA	Solid	300.0	10583
885-9933-20 MS	PS-58	Total/NA	Solid	300.0	10583
885-9933-20 MSD	PS-58	Total/NA	Solid	300.0	10583

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B20

Lab Sample ID: 885-9933-1

Date Collected: 08/13/24 13:20
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/17/24 00:16
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/17/24 00:16
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 02:03
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 18:02

Client Sample ID: P2-B23

Lab Sample ID: 885-9933-2

Date Collected: 08/13/24 13:22
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/17/24 00:59
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/17/24 00:59
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 02:28
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 18:14

Client Sample ID: P2-B32

Lab Sample ID: 885-9933-3

Date Collected: 08/13/24 13:24
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/17/24 01:21
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/17/24 01:21
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 02:52
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 18:26

Client Sample ID: P2-B35

Lab Sample ID: 885-9933-4

Date Collected: 08/13/24 13:26
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/17/24 01:43

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B35

Date Collected: 08/13/24 13:26
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/17/24 01:43
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 03:17
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 18:39

Client Sample ID: P2-B29

Date Collected: 08/13/24 13:28
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/17/24 02:05
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/17/24 02:05
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 03:41
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 18:51

Client Sample ID: P2-B37

Date Collected: 08/13/24 13:30
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/17/24 02:26
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/17/24 02:26
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 04:29
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 19:03

Client Sample ID: P2-B39

Date Collected: 08/13/24 13:40
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/17/24 02:48
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/17/24 02:48

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B39

Date Collected: 08/13/24 13:40
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 04:53
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 20:05

Client Sample ID: P2-B40

Date Collected: 08/13/24 13:42
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/17/24 03:10
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/17/24 03:10
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 05:17
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 20:17

Client Sample ID: P2-B44

Date Collected: 08/13/24 13:44
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/17/24 03:31
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/17/24 03:31
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 06:05
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 20:30

Client Sample ID: P2-B45

Date Collected: 08/13/24 13:46
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/17/24 03:53
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/17/24 03:53
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 06:29

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B45

Date Collected: 08/13/24 13:46
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 20:42

Client Sample ID: P2-B46

Date Collected: 08/13/24 14:00
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/17/24 04:15
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/17/24 04:15
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 06:53
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 20:54

Client Sample ID: P2-B49

Date Collected: 08/13/24 14:02
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8015M/D		1	10586	AT	EET ALB	08/20/24 00:06
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8021B		1	10588	AT	EET ALB	08/20/24 00:06
Total/NA	Prep	SHAKE			10566	KR	EET ALB	08/20/24 08:28
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 19:58
Total/NA	Prep	300_Prep			10583	EH	EET ALB	08/20/24 09:45
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 11:48

Client Sample ID: P2-B48

Date Collected: 08/13/24 14:04
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9933-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8015M/D		1	10586	AT	EET ALB	08/20/24 01:12
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8021B		1	10588	AT	EET ALB	08/20/24 01:12
Total/NA	Prep	SHAKE			10566	KR	EET ALB	08/20/24 08:28
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 20:12
Total/NA	Prep	300_Prep			10583	EH	EET ALB	08/20/24 09:45
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 12:34

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: P2-B2

Lab Sample ID: 885-9933-14

Date Collected: 08/13/24 14:06
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8015M/D		1	10586	AT	EET ALB	08/20/24 02:17
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8021B		1	10588	AT	EET ALB	08/20/24 02:17
Total/NA	Prep	SHAKE			10566	KR	EET ALB	08/20/24 08:28
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 20:25
Total/NA	Prep	300_Prep			10583	EH	EET ALB	08/20/24 09:45
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 12:49

Client Sample ID: P2-B3

Lab Sample ID: 885-9933-15

Date Collected: 08/13/24 14:08
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8015M/D		1	10586	AT	EET ALB	08/20/24 02:39
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8021B		1	10588	AT	EET ALB	08/20/24 02:39
Total/NA	Prep	SHAKE			10566	KR	EET ALB	08/20/24 08:28
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 20:39
Total/NA	Prep	300_Prep			10583	EH	EET ALB	08/20/24 09:45
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 13:04

Client Sample ID: P2-B4

Lab Sample ID: 885-9933-16

Date Collected: 08/13/24 14:10
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8015M/D		1	10586	AT	EET ALB	08/20/24 03:00
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8021B		1	10588	AT	EET ALB	08/20/24 03:00
Total/NA	Prep	SHAKE			10566	KR	EET ALB	08/20/24 08:28
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 20:53
Total/NA	Prep	300_Prep			10583	EH	EET ALB	08/20/24 09:45
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 13:50

Client Sample ID: PS-55

Lab Sample ID: 885-9933-17

Date Collected: 08/13/24 14:20
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8015M/D		1	10586	AT	EET ALB	08/20/24 03:22

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9933-1

Client Sample ID: PS-55

Lab Sample ID: 885-9933-17

Date Collected: 08/13/24 14:20

Matrix: Solid

Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8021B		1	10588	AT	EET ALB	08/20/24 03:22
Total/NA	Prep	SHAKE			10566	KR	EET ALB	08/20/24 08:28
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 21:06
Total/NA	Prep	300_Prep			10583	EH	EET ALB	08/20/24 09:45
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 14:05

Client Sample ID: PS-56

Lab Sample ID: 885-9933-18

Date Collected: 08/13/24 14:24

Matrix: Solid

Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8015M/D		1	10586	AT	EET ALB	08/20/24 03:44
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8021B		1	10588	AT	EET ALB	08/20/24 03:44
Total/NA	Prep	SHAKE			10566	KR	EET ALB	08/20/24 08:28
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 21:34
Total/NA	Prep	300_Prep			10583	EH	EET ALB	08/20/24 09:45
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 14:20

Client Sample ID: PS-57

Lab Sample ID: 885-9933-19

Date Collected: 08/13/24 14:26

Matrix: Solid

Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8015M/D		1	10586	AT	EET ALB	08/20/24 04:06
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8021B		1	10588	AT	EET ALB	08/20/24 04:06
Total/NA	Prep	SHAKE			10566	KR	EET ALB	08/20/24 08:28
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 21:47
Total/NA	Prep	300_Prep			10583	EH	EET ALB	08/20/24 09:45
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 14:35

Client Sample ID: PS-58

Lab Sample ID: 885-9933-20

Date Collected: 08/13/24 14:30

Matrix: Solid

Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8015M/D		1	10586	AT	EET ALB	08/20/24 04:28
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8021B		1	10588	AT	EET ALB	08/20/24 04:28

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-9933-1
Project/Site: Roy SWD #3

Client Sample ID: PS-58
Lab Sample ID: 885-9933-20
Date Collected: 08/13/24 14:30
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			10566	KR	EET ALB	08/20/24 08:28
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 22:01
Total/NA	Prep	300_Prep			10583	EH	EET ALB	08/20/24 09:45
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 14:50

Client Sample ID: PS-59
Lab Sample ID: 885-9933-21
Date Collected: 08/13/24 14:32
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8015M/D		1	10586	AT	EET ALB	08/20/24 04:49
Total/NA	Prep	5030C			10456	AT	EET ALB	08/16/24 17:33
Total/NA	Analysis	8021B		1	10588	AT	EET ALB	08/20/24 04:49
Total/NA	Prep	SHAKE			10566	KR	EET ALB	08/20/24 08:28
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 22:15
Total/NA	Prep	300_Prep			10583	EH	EET ALB	08/20/24 09:45
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 15:36

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-9933-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1 (MOJO)

Cooler Temp(including CF): 0.4+0.3=0.7°C

HALL ENVIRONMENTAL ANALYSIS LABORA

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

885-9933 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/13/24	1320	SOIL	P2-B20	1x4oz Jar	ICE	1	X	X	X
	1322		P2-B23			2			
	1324		P2-B32			3			
	1324		P2-B35			4			
	1328		P2-B29			5			
	1330		P2-B37			6			
	1340		P2-B39			7			
	1342		P2-B40			8			
	1344		P2-B44			9			
	1346		P2-B45			10			
	1406		P2-B46			11			
	1402		P2-B49			12			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/14/24	830				8/14/24	830
8/14/24	1900		SCM	COURIER	6/15/24	0750

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other_____

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☒ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☒ Yes ☐ No

# of Coolers: 1 MOSD

Cooler Temp(including CF): 0.4+0.3=0.7 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/13/24	1404	SOIL	P2-B48	1x4oz Jar	ICE	13	X	X	X
	1406		P2-B2			14			
	1408		P2-B3			15			
	1410		P2-B4			16			
	1420		PS-55			17			
	1424		PS-56			18			
	1426		PS-57			19			
	1430		PS-58			20			
	1432		PS-59			21			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/14/24	0830				8/14/24	830
8/14/24	1900		SCM	COURIER	8/15/24	0750

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-9933-1

Login Number: 9933 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: McQuiston, Steven

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 9/12/2024 3:32:59 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-10998-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
9/12/2024 3:32:59 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-10998-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-10998-1
Project/Site: Roy SWD #3

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-10998-1

Job ID: 885-10998-1 Eurofins Albuquerque

Job Narrative
885-10998-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/31/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: Surrogate recovery for the following CCV(s) is outside the lower control limit: (CCV 885-11566/52) and (CCV 885-11566/56). All samples with low surrogate must be re-ran. No samples affected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-46A

Date Collected: 08/29/24 11:40
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/03/24 11:24	09/05/24 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*09/03/24 11:24*	*09/05/24 05:28*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 11:24	09/05/24 05:28	1
Ethylbenzene	ND		0.047		mg/Kg		09/03/24 11:24	09/05/24 05:28	1
Toluene	ND		0.047		mg/Kg		09/03/24 11:24	09/05/24 05:28	1
Xylenes, Total	ND		0.094		mg/Kg		09/03/24 11:24	09/05/24 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*09/03/24 11:24*	*09/05/24 05:28*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/03/24 15:02	09/04/24 11:31	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/03/24 15:02	09/04/24 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/03/24 15:02*	*09/04/24 11:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/04/24 11:40	09/05/24 00:33	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-48A

Date Collected: 08/29/24 11:42
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/03/24 11:24	09/05/24 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*09/03/24 11:24*	*09/05/24 05:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 11:24	09/05/24 05:49	1
Ethylbenzene	ND		0.048		mg/Kg		09/03/24 11:24	09/05/24 05:49	1
Toluene	ND		0.048		mg/Kg		09/03/24 11:24	09/05/24 05:49	1
Xylenes, Total	ND		0.096		mg/Kg		09/03/24 11:24	09/05/24 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/03/24 11:24*	*09/05/24 05:49*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/03/24 15:02	09/04/24 11:42	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/03/24 15:02	09/04/24 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*09/03/24 15:02*	*09/04/24 11:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		60		mg/Kg		09/04/24 11:40	09/05/24 00:46	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-49A

Date Collected: 08/29/24 11:46
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/03/24 11:24	09/05/24 06:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*09/03/24 11:24*	*09/05/24 06:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 11:24	09/05/24 06:11	1
Ethylbenzene	ND		0.048		mg/Kg		09/03/24 11:24	09/05/24 06:11	1
Toluene	ND		0.048		mg/Kg		09/03/24 11:24	09/05/24 06:11	1
Xylenes, Total	ND		0.095		mg/Kg		09/03/24 11:24	09/05/24 06:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/03/24 11:24*	*09/05/24 06:11*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/03/24 15:02	09/04/24 11:53	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/03/24 15:02	09/04/24 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*09/03/24 15:02*	*09/04/24 11:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**370**		60		mg/Kg		09/04/24 12:51	09/04/24 17:14	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-50A

Date Collected: 08/29/24 11:50
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/03/24 11:24	09/05/24 06:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*09/03/24 11:24*	*09/05/24 06:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 11:24	09/05/24 06:33	1
Ethylbenzene	ND		0.048		mg/Kg		09/03/24 11:24	09/05/24 06:33	1
Toluene	ND		0.048		mg/Kg		09/03/24 11:24	09/05/24 06:33	1
Xylenes, Total	ND		0.097		mg/Kg		09/03/24 11:24	09/05/24 06:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/03/24 11:24*	*09/05/24 06:33*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/03/24 15:02	09/04/24 12:03	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/03/24 15:02	09/04/24 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/03/24 15:02*	*09/04/24 12:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**540**		60		mg/Kg		09/04/24 12:51	09/04/24 17:27	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-54A

Date Collected: 08/29/24 11:54
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/03/24 11:24	09/05/24 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*09/03/24 11:24*	*09/05/24 06:55*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 11:24	09/05/24 06:55	1
Ethylbenzene	ND		0.049		mg/Kg		09/03/24 11:24	09/05/24 06:55	1
Toluene	ND		0.049		mg/Kg		09/03/24 11:24	09/05/24 06:55	1
Xylenes, Total	ND		0.098		mg/Kg		09/03/24 11:24	09/05/24 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*09/03/24 11:24*	*09/05/24 06:55*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/03/24 15:02	09/04/24 12:14	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/03/24 15:02	09/04/24 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/03/24 15:02*	*09/04/24 12:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**600**		60		mg/Kg		09/04/24 12:51	09/04/24 17:39	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-55A

Date Collected: 08/29/24 12:00
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/03/24 11:24	09/05/24 07:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*09/03/24 11:24*	*09/05/24 07:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 11:24	09/05/24 07:17	1
Ethylbenzene	ND		0.050		mg/Kg		09/03/24 11:24	09/05/24 07:17	1
Toluene	ND		0.050		mg/Kg		09/03/24 11:24	09/05/24 07:17	1
Xylenes, Total	ND		0.10		mg/Kg		09/03/24 11:24	09/05/24 07:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*09/03/24 11:24*	*09/05/24 07:17*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**12**		9.8		mg/Kg		09/03/24 15:02	09/04/24 12:25	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/03/24 15:02	09/04/24 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*09/03/24 15:02*	*09/04/24 12:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**450**		60		mg/Kg		09/04/24 12:51	09/04/24 17:52	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-51A

Date Collected: 08/29/24 12:02
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		09/03/24 11:24	09/05/24 07:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*09/03/24 11:24*	*09/05/24 07:38*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/03/24 11:24	09/05/24 07:38	1
Ethylbenzene	ND		0.046		mg/Kg		09/03/24 11:24	09/05/24 07:38	1
Toluene	ND		0.046		mg/Kg		09/03/24 11:24	09/05/24 07:38	1
Xylenes, Total	ND		0.093		mg/Kg		09/03/24 11:24	09/05/24 07:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/03/24 11:24*	*09/05/24 07:38*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/03/24 15:02	09/04/24 12:36	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/03/24 15:02	09/04/24 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*09/03/24 15:02*	*09/04/24 12:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		60		mg/Kg		09/04/24 12:51	09/04/24 18:31	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-58A

Date Collected: 08/29/24 12:08
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/03/24 11:24	09/05/24 08:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*09/03/24 11:24*	*09/05/24 08:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 11:24	09/05/24 08:00	1
Ethylbenzene	ND		0.050		mg/Kg		09/03/24 11:24	09/05/24 08:00	1
Toluene	ND		0.050		mg/Kg		09/03/24 11:24	09/05/24 08:00	1
Xylenes, Total	ND		0.10		mg/Kg		09/03/24 11:24	09/05/24 08:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/03/24 11:24*	*09/05/24 08:00*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		09/03/24 15:02	09/04/24 12:46	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/03/24 15:02	09/04/24 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*09/03/24 15:02*	*09/04/24 12:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**520**		60		mg/Kg		09/04/24 12:51	09/04/24 18:44	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-41A

Date Collected: 08/29/24 12:12
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/03/24 12:26	09/06/24 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/03/24 12:26*	*09/06/24 20:55*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 12:26	09/06/24 20:55	1
Ethylbenzene	ND		0.049		mg/Kg		09/03/24 12:26	09/06/24 20:55	1
Toluene	ND		0.049		mg/Kg		09/03/24 12:26	09/06/24 20:55	1
Xylenes, Total	ND		0.099		mg/Kg		09/03/24 12:26	09/06/24 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/03/24 12:26*	*09/06/24 20:55*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/04/24 10:41	09/04/24 16:44	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/04/24 10:41	09/04/24 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*75*		*62 - 134*	*09/04/24 10:41*	*09/04/24 16:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		60		mg/Kg		09/04/24 15:06	09/04/24 20:08	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-59A

Date Collected: 08/29/24 12:14
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/03/24 12:26	09/06/24 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/03/24 12:26*	*09/06/24 22:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 12:26	09/06/24 22:00	1
Ethylbenzene	ND		0.049		mg/Kg		09/03/24 12:26	09/06/24 22:00	1
Toluene	ND		0.049		mg/Kg		09/03/24 12:26	09/06/24 22:00	1
Xylenes, Total	ND		0.098		mg/Kg		09/03/24 12:26	09/06/24 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/03/24 12:26*	*09/06/24 22:00*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/04/24 10:41	09/04/24 16:55	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/04/24 10:41	09/04/24 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*78*		*62 - 134*	*09/04/24 10:41*	*09/04/24 16:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		60		mg/Kg		09/04/24 15:06	09/04/24 19:07	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-33A

Date Collected: 08/29/24 13:02
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/03/24 12:26	09/06/24 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*09/03/24 12:26*	*09/06/24 23:05*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 12:26	09/06/24 23:05	1
Ethylbenzene	ND		0.047		mg/Kg		09/03/24 12:26	09/06/24 23:05	1
Toluene	ND		0.047		mg/Kg		09/03/24 12:26	09/06/24 23:05	1
Xylenes, Total	ND		0.095		mg/Kg		09/03/24 12:26	09/06/24 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*09/03/24 12:26*	*09/06/24 23:05*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/04/24 10:41	09/04/24 17:06	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/04/24 10:41	09/04/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*78*		*62 - 134*	*09/04/24 10:41*	*09/04/24 17:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**500**		60		mg/Kg		09/04/24 15:06	09/04/24 19:23	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-34A

Date Collected: 08/29/24 13:04
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-12

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		09/03/24 12:26	09/06/24 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/03/24 12:26*	*09/06/24 23:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/03/24 12:26	09/06/24 23:27	1
Ethylbenzene	ND		0.046		mg/Kg		09/03/24 12:26	09/06/24 23:27	1
Toluene	ND		0.046		mg/Kg		09/03/24 12:26	09/06/24 23:27	1
Xylenes, Total	ND		0.093		mg/Kg		09/03/24 12:26	09/06/24 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/03/24 12:26*	*09/06/24 23:27*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/04/24 10:41	09/04/24 17:17	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/04/24 10:41	09/04/24 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*77*		*62 - 134*	*09/04/24 10:41*	*09/04/24 17:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		60		mg/Kg		09/04/24 15:06	09/04/24 20:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-36A

Date Collected: 08/29/24 13:08
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-13

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/03/24 12:26	09/06/24 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/03/24 12:26*	*09/06/24 23:48*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 12:26	09/06/24 23:48	1
Ethylbenzene	ND		0.048		mg/Kg		09/03/24 12:26	09/06/24 23:48	1
Toluene	ND		0.048		mg/Kg		09/03/24 12:26	09/06/24 23:48	1
Xylenes, Total	ND		0.095		mg/Kg		09/03/24 12:26	09/06/24 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/03/24 12:26*	*09/06/24 23:48*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/04/24 10:41	09/04/24 17:28	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/04/24 10:41	09/04/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*09/04/24 10:41*	*09/04/24 17:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		60		mg/Kg		09/04/24 15:06	09/04/24 21:09	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-41A

Date Collected: 08/29/24 13:12
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/03/24 12:26	09/07/24 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/03/24 12:26*	*09/07/24 00:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 12:26	09/07/24 00:10	1
Ethylbenzene	ND		0.050		mg/Kg		09/03/24 12:26	09/07/24 00:10	1
Toluene	ND		0.050		mg/Kg		09/03/24 12:26	09/07/24 00:10	1
Xylenes, Total	ND		0.10		mg/Kg		09/03/24 12:26	09/07/24 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/03/24 12:26*	*09/07/24 00:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/04/24 10:41	09/04/24 17:39	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/04/24 10:41	09/04/24 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*09/04/24 10:41*	*09/04/24 17:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		60		mg/Kg		09/04/24 15:06	09/04/24 21:24	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-43A

Date Collected: 08/29/24 13:20
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-15

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/03/24 12:26	09/07/24 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*09/03/24 12:26*	*09/07/24 00:32*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 12:26	09/07/24 00:32	1
Ethylbenzene	ND		0.048		mg/Kg		09/03/24 12:26	09/07/24 00:32	1
Toluene	ND		0.048		mg/Kg		09/03/24 12:26	09/07/24 00:32	1
Xylenes, Total	ND		0.097		mg/Kg		09/03/24 12:26	09/07/24 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/03/24 12:26*	*09/07/24 00:32*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/04/24 10:41	09/04/24 17:51	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/04/24 10:41	09/04/24 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*09/04/24 10:41*	*09/04/24 17:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		09/04/24 15:06	09/04/24 21:40	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-40A

Date Collected: 08/29/24 13:24
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-16

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/03/24 12:26	09/07/24 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*09/03/24 12:26*	*09/07/24 00:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 12:26	09/07/24 00:54	1
Ethylbenzene	ND		0.047		mg/Kg		09/03/24 12:26	09/07/24 00:54	1
Toluene	ND		0.047		mg/Kg		09/03/24 12:26	09/07/24 00:54	1
Xylenes, Total	ND		0.094		mg/Kg		09/03/24 12:26	09/07/24 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/03/24 12:26*	*09/07/24 00:54*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		09/04/24 10:41	09/04/24 18:02	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		09/04/24 10:41	09/04/24 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*09/04/24 10:41*	*09/04/24 18:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		09/04/24 15:06	09/04/24 21:55	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-39A

Date Collected: 08/29/24 13:26
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-17

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/03/24 12:26	09/07/24 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*09/03/24 12:26*	*09/07/24 01:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 12:26	09/07/24 01:15	1
Ethylbenzene	ND		0.048		mg/Kg		09/03/24 12:26	09/07/24 01:15	1
Toluene	ND		0.048		mg/Kg		09/03/24 12:26	09/07/24 01:15	1
Xylenes, Total	ND		0.096		mg/Kg		09/03/24 12:26	09/07/24 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/03/24 12:26*	*09/07/24 01:15*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/04/24 10:41	09/04/24 18:13	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/04/24 10:41	09/04/24 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*09/04/24 10:41*	*09/04/24 18:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		09/04/24 15:06	09/04/24 22:10	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-37A

Date Collected: 08/29/24 13:28
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-18

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/03/24 12:26	09/07/24 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*09/03/24 12:26*	*09/07/24 01:37*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 12:26	09/07/24 01:37	1
Ethylbenzene	ND		0.048		mg/Kg		09/03/24 12:26	09/07/24 01:37	1
Toluene	ND		0.048		mg/Kg		09/03/24 12:26	09/07/24 01:37	1
Xylenes, Total	ND		0.095		mg/Kg		09/03/24 12:26	09/07/24 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/03/24 12:26*	*09/07/24 01:37*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		09/04/24 10:41	09/04/24 18:36	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/04/24 10:41	09/04/24 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*111*		*62 - 134*	*09/04/24 10:41*	*09/04/24 18:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		09/04/24 15:06	09/04/24 22:26	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-46A

Date Collected: 08/29/24 13:30
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-19

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/03/24 12:26	09/07/24 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*09/03/24 12:26*	*09/07/24 02:21*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 12:26	09/07/24 02:21	1
Ethylbenzene	ND		0.047		mg/Kg		09/03/24 12:26	09/07/24 02:21	1
Toluene	ND		0.047		mg/Kg		09/03/24 12:26	09/07/24 02:21	1
Xylenes, Total	ND		0.094		mg/Kg		09/03/24 12:26	09/07/24 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/03/24 12:26*	*09/07/24 02:21*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		09/04/24 10:41	09/04/24 18:47	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/04/24 10:41	09/04/24 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*	*09/04/24 10:41*	*09/04/24 18:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		60		mg/Kg		09/04/24 15:06	09/04/24 23:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-47A

Date Collected: 08/29/24 13:32
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-20

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/03/24 12:26	09/07/24 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*09/03/24 12:26*	*09/07/24 02:42*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 12:26	09/07/24 02:42	1
Ethylbenzene	ND		0.048		mg/Kg		09/03/24 12:26	09/07/24 02:42	1
Toluene	ND		0.048		mg/Kg		09/03/24 12:26	09/07/24 02:42	1
Xylenes, Total	ND		0.096		mg/Kg		09/03/24 12:26	09/07/24 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*09/03/24 12:26*	*09/07/24 02:42*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/04/24 10:41	09/04/24 18:59	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/04/24 10:41	09/04/24 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*09/04/24 10:41*	*09/04/24 18:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		60		mg/Kg		09/04/24 15:06	09/04/24 23:57	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-50A

Date Collected: 08/29/24 13:34
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-21

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/03/24 12:26	09/07/24 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/03/24 12:26*	*09/07/24 03:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 12:26	09/07/24 03:04	1
Ethylbenzene	ND		0.050		mg/Kg		09/03/24 12:26	09/07/24 03:04	1
Toluene	ND		0.050		mg/Kg		09/03/24 12:26	09/07/24 03:04	1
Xylenes, Total	ND		0.10		mg/Kg		09/03/24 12:26	09/07/24 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*09/03/24 12:26*	*09/07/24 03:04*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/04/24 10:41	09/04/24 19:10	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/04/24 10:41	09/04/24 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*09/04/24 10:41*	*09/04/24 19:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		60		mg/Kg		09/04/24 15:06	09/05/24 00:12	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-51A

Date Collected: 08/29/24 13:36
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-22

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/03/24 12:26	09/07/24 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*09/03/24 12:26*	*09/07/24 03:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 12:26	09/07/24 03:26	1
Ethylbenzene	ND		0.048		mg/Kg		09/03/24 12:26	09/07/24 03:26	1
Toluene	ND		0.048		mg/Kg		09/03/24 12:26	09/07/24 03:26	1
Xylenes, Total	ND		0.095		mg/Kg		09/03/24 12:26	09/07/24 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/03/24 12:26*	*09/07/24 03:26*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/04/24 10:41	09/04/24 19:21	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/04/24 10:41	09/04/24 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*09/04/24 10:41*	*09/04/24 19:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		09/04/24 15:06	09/05/24 00:27	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-53A

Date Collected: 08/29/24 13:40
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-23

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/03/24 12:26	09/07/24 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/03/24 12:26*	*09/07/24 03:48*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 12:26	09/07/24 03:48	1
Ethylbenzene	ND		0.050		mg/Kg		09/03/24 12:26	09/07/24 03:48	1
Toluene	ND		0.050		mg/Kg		09/03/24 12:26	09/07/24 03:48	1
Xylenes, Total	ND		0.099		mg/Kg		09/03/24 12:26	09/07/24 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/03/24 12:26*	*09/07/24 03:48*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/04/24 10:41	09/04/24 19:33	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/04/24 10:41	09/04/24 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*09/04/24 10:41*	*09/04/24 19:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**450**		60		mg/Kg		09/04/24 15:06	09/05/24 00:42	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-23A

Date Collected: 08/29/24 13:42
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-24

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/03/24 12:26	09/07/24 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/03/24 12:26*	*09/07/24 04:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 12:26	09/07/24 04:10	1
Ethylbenzene	ND		0.049		mg/Kg		09/03/24 12:26	09/07/24 04:10	1
Toluene	ND		0.049		mg/Kg		09/03/24 12:26	09/07/24 04:10	1
Xylenes, Total	ND		0.097		mg/Kg		09/03/24 12:26	09/07/24 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/03/24 12:26*	*09/07/24 04:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/04/24 10:41	09/04/24 19:44	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/04/24 10:41	09/04/24 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*09/04/24 10:41*	*09/04/24 19:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		09/04/24 15:06	09/05/24 00:58	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-29A

Date Collected: 08/29/24 14:00
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-25

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/03/24 12:26	09/07/24 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*09/03/24 12:26*	*09/07/24 04:32*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 12:26	09/07/24 04:32	1
Ethylbenzene	ND		0.049		mg/Kg		09/03/24 12:26	09/07/24 04:32	1
Toluene	ND		0.049		mg/Kg		09/03/24 12:26	09/07/24 04:32	1
Xylenes, Total	ND		0.099		mg/Kg		09/03/24 12:26	09/07/24 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/03/24 12:26*	*09/07/24 04:32*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/04/24 10:41	09/04/24 19:55	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/04/24 10:41	09/04/24 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*09/04/24 10:41*	*09/04/24 19:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		09/04/24 15:06	09/05/24 01:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-52A

Date Collected: 08/29/24 14:04
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-26

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/03/24 12:26	09/07/24 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*09/03/24 12:26*	*09/07/24 04:53*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 12:26	09/07/24 04:53	1
Ethylbenzene	ND		0.047		mg/Kg		09/03/24 12:26	09/07/24 04:53	1
Toluene	ND		0.047		mg/Kg		09/03/24 12:26	09/07/24 04:53	1
Xylenes, Total	ND		0.094		mg/Kg		09/03/24 12:26	09/07/24 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/03/24 12:26*	*09/07/24 04:53*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/04/24 10:41	09/04/24 20:06	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/04/24 10:41	09/04/24 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*68*		*62 - 134*	*09/04/24 10:41*	*09/04/24 20:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		09/04/24 15:06	09/05/24 01:28	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-14A

Date Collected: 08/29/24 14:08
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-27

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/03/24 12:26	09/07/24 05:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/03/24 12:26*	*09/07/24 05:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 12:26	09/07/24 05:15	1
Ethylbenzene	ND		0.050		mg/Kg		09/03/24 12:26	09/07/24 05:15	1
Toluene	ND		0.050		mg/Kg		09/03/24 12:26	09/07/24 05:15	1
Xylenes, Total	ND		0.099		mg/Kg		09/03/24 12:26	09/07/24 05:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/03/24 12:26*	*09/07/24 05:15*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/04/24 10:41	09/04/24 20:17	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/04/24 10:41	09/04/24 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*09/04/24 10:41*	*09/04/24 20:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**480**		60		mg/Kg		09/04/24 15:06	09/05/24 02:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-30A

Date Collected: 08/29/24 14:10
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-28

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/03/24 12:26	09/07/24 05:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*09/03/24 12:26*	*09/07/24 05:37*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 12:26	09/07/24 05:37	1
Ethylbenzene	ND		0.047		mg/Kg		09/03/24 12:26	09/07/24 05:37	1
Toluene	ND		0.047		mg/Kg		09/03/24 12:26	09/07/24 05:37	1
Xylenes, Total	ND		0.094		mg/Kg		09/03/24 12:26	09/07/24 05:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/03/24 12:26*	*09/07/24 05:37*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/04/24 10:41	09/04/24 20:40	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/04/24 10:41	09/04/24 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*09/04/24 10:41*	*09/04/24 20:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**430**		60		mg/Kg		09/04/24 15:06	09/05/24 02:29	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-1A

Date Collected: 08/29/24 14:12
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-29

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/03/24 16:02	09/09/24 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*09/03/24 16:02*	*09/09/24 05:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 16:02	09/09/24 05:49	1
Ethylbenzene	ND		0.048		mg/Kg		09/03/24 16:02	09/09/24 05:49	1
Toluene	ND		0.048		mg/Kg		09/03/24 16:02	09/09/24 05:49	1
Xylenes, Total	ND		0.095		mg/Kg		09/03/24 16:02	09/09/24 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/03/24 16:02*	*09/09/24 05:49*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/04/24 12:18	09/04/24 22:18	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/04/24 12:18	09/04/24 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*70*		*62 - 134*	*09/04/24 12:18*	*09/04/24 22:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**470**		60		mg/Kg		09/04/24 16:58	09/05/24 18:40	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-6A

Date Collected: 08/29/24 14:16
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-30

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/03/24 16:02	09/09/24 06:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/03/24 16:02*	*09/09/24 06:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 16:02	09/09/24 06:10	1
Ethylbenzene	ND		0.050		mg/Kg		09/03/24 16:02	09/09/24 06:10	1
Toluene	ND		0.050		mg/Kg		09/03/24 16:02	09/09/24 06:10	1
Xylenes, Total	ND		0.10		mg/Kg		09/03/24 16:02	09/09/24 06:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/03/24 16:02*	*09/09/24 06:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/04/24 12:18	09/04/24 22:29	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/04/24 12:18	09/04/24 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*73*		*62 - 134*	*09/04/24 12:18*	*09/04/24 22:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		60		mg/Kg		09/04/24 16:58	09/05/24 18:53	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B13

Date Collected: 08/29/24 14:20
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-31

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/03/24 16:02	09/09/24 06:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*35 - 166*	*09/03/24 16:02*	*09/09/24 06:32*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/03/24 16:02	09/09/24 06:32	1
Ethylbenzene	ND		0.048		mg/Kg		09/03/24 16:02	09/09/24 06:32	1
Toluene	ND		0.048		mg/Kg		09/03/24 16:02	09/09/24 06:32	1
Xylenes, Total	ND		0.096		mg/Kg		09/03/24 16:02	09/09/24 06:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/03/24 16:02*	*09/09/24 06:32*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/04/24 12:18	09/04/24 22:41	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/04/24 12:18	09/04/24 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*09/04/24 12:18*	*09/04/24 22:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		09/04/24 16:58	09/05/24 19:05	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-11514/1-A
Matrix: Solid
Analysis Batch: 11650

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11514

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/03/24 11:24	09/04/24 22:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*09/03/24 11:24*	*09/04/24 22:56*	*1*

Lab Sample ID: LCS 885-11514/2-A
Matrix: Solid
Analysis Batch: 11650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11514

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.6		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*216*		*35 - 166*

Lab Sample ID: MB 885-11518/1-A
Matrix: Solid
Analysis Batch: 11802

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11518

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/03/24 12:26	09/06/24 20:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*09/03/24 12:26*	*09/06/24 20:33*	*1*

Lab Sample ID: LCS 885-11518/2-A
Matrix: Solid
Analysis Batch: 11802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11518

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	27.6		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*219*		*35 - 166*

Lab Sample ID: 885-10998-9 MS
Matrix: Solid
Analysis Batch: 11802

Client Sample ID: PS-41A
Prep Type: Total/NA
Prep Batch: 11518

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.6	24.8		mg/Kg		101	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-10998-9 MS
Matrix: Solid
Analysis Batch: 11802

Client Sample ID: PS-41A
Prep Type: Total/NA
Prep Batch: 11518

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	219		35 - 166

Lab Sample ID: 885-10998-9 MSD
Matrix: Solid
Analysis Batch: 11802

Client Sample ID: PS-41A
Prep Type: Total/NA
Prep Batch: 11518

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	27.9		mg/Kg		112	70 - 130	12	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	221		35 - 166

Lab Sample ID: MB 885-11537/1-A
Matrix: Solid
Analysis Batch: 11832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11537

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/03/24 16:02	09/08/24 21:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		35 - 166	09/03/24 16:02	09/08/24 21:50	1

Lab Sample ID: LCS 885-11537/2-A
Matrix: Solid
Analysis Batch: 11832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11537

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	24.3		mg/Kg		97	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	207		35 - 166

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-11514/1-A
Matrix: Solid
Analysis Batch: 11652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11514

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 11:24	09/04/24 22:56	1
Ethylbenzene	ND		0.050		mg/Kg		09/03/24 11:24	09/04/24 22:56	1
Toluene	ND		0.050		mg/Kg		09/03/24 11:24	09/04/24 22:56	1
Xylenes, Total	ND		0.10		mg/Kg		09/03/24 11:24	09/04/24 22:56	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-11514/1-A
Matrix: Solid
Analysis Batch: 11652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11514

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145	09/03/24 11:24	09/04/24 22:56	1

Lab Sample ID: LCS 885-11514/3-A
Matrix: Solid
Analysis Batch: 11652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.05		mg/Kg		105	70 - 130
Ethylbenzene	1.00	1.07		mg/Kg		107	70 - 130
Toluene	1.00	1.07		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	2.00	2.11		mg/Kg		106	70 - 130
o-Xylene	1.00	1.06		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		48 - 145

Lab Sample ID: MB 885-11518/1-A
Matrix: Solid
Analysis Batch: 11805

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11518

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 12:26	09/06/24 20:33	1
Ethylbenzene	ND		0.050		mg/Kg		09/03/24 12:26	09/06/24 20:33	1
Toluene	ND		0.050		mg/Kg		09/03/24 12:26	09/06/24 20:33	1
Xylenes, Total	ND		0.10		mg/Kg		09/03/24 12:26	09/06/24 20:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		48 - 145	09/03/24 12:26	09/06/24 20:33	1

Lab Sample ID: LCS 885-11518/3-A
Matrix: Solid
Analysis Batch: 11805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.09		mg/Kg		109	70 - 130
Ethylbenzene	1.00	1.10		mg/Kg		110	70 - 130
Toluene	1.00	1.09		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	2.00	2.17		mg/Kg		109	70 - 130
o-Xylene	1.00	1.07		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		48 - 145

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-10998-10 MS
Matrix: Solid
Analysis Batch: 11805

Client Sample ID: PS-59A
Prep Type: Total/NA
Prep Batch: 11518

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.976	1.08		mg/Kg		111	70 - 130
Ethylbenzene	ND		0.976	1.10		mg/Kg		113	70 - 130
Toluene	ND		0.976	1.09		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	ND		1.95	2.21		mg/Kg		113	70 - 130
o-Xylene	ND		0.976	1.09		mg/Kg		112	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*

Lab Sample ID: 885-10998-10 MSD
Matrix: Solid
Analysis Batch: 11805

Client Sample ID: PS-59A
Prep Type: Total/NA
Prep Batch: 11518

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.982	1.09		mg/Kg		111	70 - 130	0	20
Ethylbenzene	ND		0.982	1.10		mg/Kg		112	70 - 130	0	20
Toluene	ND		0.982	1.09		mg/Kg		111	70 - 130	0	20
m-Xylene & p-Xylene	ND		1.96	2.19		mg/Kg		112	70 - 130	1	20
o-Xylene	ND		0.982	1.08		mg/Kg		110	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*

Lab Sample ID: MB 885-11537/1-A
Matrix: Solid
Analysis Batch: 11834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11537

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/03/24 16:02	09/08/24 21:50	1
Ethylbenzene	ND		0.050		mg/Kg		09/03/24 16:02	09/08/24 21:50	1
Toluene	ND		0.050		mg/Kg		09/03/24 16:02	09/08/24 21:50	1
Xylenes, Total	ND		0.10		mg/Kg		09/03/24 16:02	09/08/24 21:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/03/24 16:02*	*09/08/24 21:50*	*1*

Lab Sample ID: LCS 885-11537/3-A
Matrix: Solid
Analysis Batch: 11834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11537

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			1.00	1.06		mg/Kg		106	70 - 130
Ethylbenzene			1.00	1.06		mg/Kg		106	70 - 130
Toluene			1.00	1.06		mg/Kg		106	70 - 130
m-Xylene & p-Xylene			2.00	2.13		mg/Kg		106	70 - 130
o-Xylene			1.00	1.04		mg/Kg		104	70 - 130

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-11537/3-A
Matrix: Solid
Analysis Batch: 11834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11537

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-11535/1-A
Matrix: Solid
Analysis Batch: 11566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11535

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/03/24 15:02	09/04/24 11:10	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/03/24 15:02	09/04/24 11:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*09/03/24 15:02*	*09/04/24 11:10*	*1*

Lab Sample ID: LCS 885-11535/2-A
Matrix: Solid
Analysis Batch: 11566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11535

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	36.7		mg/Kg		73	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*

Lab Sample ID: MB 885-11580/1-A
Matrix: Solid
Analysis Batch: 11566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11580

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/04/24 10:41	09/04/24 16:22	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/04/24 10:41	09/04/24 16:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/04/24 10:41*	*09/04/24 16:22*	*1*

Lab Sample ID: LCS 885-11580/2-A
Matrix: Solid
Analysis Batch: 11566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11580

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	42.6		mg/Kg		85	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-10998-28 MS
Matrix: Solid
Analysis Batch: 11566

Client Sample ID: P2-B-30A
Prep Type: Total/NA
Prep Batch: 11580

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		47.3	36.9		mg/Kg		78	44 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*

Lab Sample ID: 885-10998-28 MSD
Matrix: Solid
Analysis Batch: 11566

Client Sample ID: P2-B-30A
Prep Type: Total/NA
Prep Batch: 11580

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		48.1	37.8		mg/Kg		79	44 - 136	3	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*

Lab Sample ID: MB 885-11592/1-A
Matrix: Solid
Analysis Batch: 11566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11592

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/04/24 12:18	09/04/24 21:56	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/04/24 12:18	09/04/24 21:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*75*		*62 - 134*	*09/04/24 12:18*	*09/04/24 21:56*	*1*

Lab Sample ID: LCS 885-11592/2-A
Matrix: Solid
Analysis Batch: 11566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11592

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	39.8		mg/Kg		80	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-11588/1-A
Matrix: Solid
Analysis Batch: 11665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11588

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/04/24 11:40	09/04/24 18:07	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-11588/2-A
Matrix: Solid
Analysis Batch: 11665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11588

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	31.2		mg/Kg		104	90 - 110		

Lab Sample ID: MB 885-11596/1-A
Matrix: Solid
Analysis Batch: 11640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11596

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/04/24 12:51	09/04/24 16:48	1

Lab Sample ID: LCS 885-11596/2-A
Matrix: Solid
Analysis Batch: 11640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11596

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.9		mg/Kg		96	90 - 110		

Lab Sample ID: 885-10998-6 MS
Matrix: Solid
Analysis Batch: 11640

Client Sample ID: PS-55A
Prep Type: Total/NA
Prep Batch: 11596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	450		30.1	477	4	mg/Kg		87	50 - 150		

Lab Sample ID: 885-10998-6 MSD
Matrix: Solid
Analysis Batch: 11640

Client Sample ID: PS-55A
Prep Type: Total/NA
Prep Batch: 11596

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	450		30.0	493	4	mg/Kg		142	50 - 150	3	20

Lab Sample ID: MB 885-11610/1-A
Matrix: Solid
Analysis Batch: 11605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11610

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/04/24 15:06	09/04/24 18:37	1

Lab Sample ID: LCS 885-11610/2-A
Matrix: Solid
Analysis Batch: 11605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11610

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	31.7		mg/Kg		106	90 - 110		

Lab Sample ID: 885-10998-9 MS
Matrix: Solid
Analysis Batch: 11605

Client Sample ID: PS-41A
Prep Type: Total/NA
Prep Batch: 11610

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	280		29.9	297	4	mg/Kg		50	50 - 150		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-10998-9 MSD
Matrix: Solid
Analysis Batch: 11605

Client Sample ID: PS-41A
Prep Type: Total/NA
Prep Batch: 11610

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	280		30.0	311	4	mg/Kg		95	50 - 150	4	20

Lab Sample ID: 885-10998-19 MS
Matrix: Solid
Analysis Batch: 11605

Client Sample ID: P2-B-46A
Prep Type: Total/NA
Prep Batch: 11610

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	210		30.0	251	4	mg/Kg		131	50 - 150

Lab Sample ID: MB 885-11622/1-A
Matrix: Solid
Analysis Batch: 11669

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11622

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/04/24 16:58	09/05/24 12:52	1

Lab Sample ID: LCS 885-11622/2-A
Matrix: Solid
Analysis Batch: 11669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11622

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			30.0	27.9		mg/Kg		93	90 - 110

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

GC VOA

Prep Batch: 11514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-1	PS-46A	Total/NA	Solid	5030C	
885-10998-2	PS-48A	Total/NA	Solid	5030C	
885-10998-3	PS-49A	Total/NA	Solid	5030C	
885-10998-4	PS-50A	Total/NA	Solid	5030C	
885-10998-5	PS-54A	Total/NA	Solid	5030C	
885-10998-6	PS-55A	Total/NA	Solid	5030C	
885-10998-7	PS-51A	Total/NA	Solid	5030C	
885-10998-8	PS-58A	Total/NA	Solid	5030C	
MB 885-11514/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-11514/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-11514/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 11518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-9	PS-41A	Total/NA	Solid	5030C	
885-10998-10	PS-59A	Total/NA	Solid	5030C	
885-10998-11	P2-B-33A	Total/NA	Solid	5030C	
885-10998-12	P2-B-34A	Total/NA	Solid	5030C	
885-10998-13	P2-B-36A	Total/NA	Solid	5030C	
885-10998-14	P2-B-41A	Total/NA	Solid	5030C	
885-10998-15	P2-B-43A	Total/NA	Solid	5030C	
885-10998-16	P2-B-40A	Total/NA	Solid	5030C	
885-10998-17	P2-B-39A	Total/NA	Solid	5030C	
885-10998-18	P2-B-37A	Total/NA	Solid	5030C	
885-10998-19	P2-B-46A	Total/NA	Solid	5030C	
885-10998-20	P2-B-47A	Total/NA	Solid	5030C	
885-10998-21	P2-B-50A	Total/NA	Solid	5030C	
885-10998-22	P2-B-51A	Total/NA	Solid	5030C	
885-10998-23	P2-B-53A	Total/NA	Solid	5030C	
885-10998-24	P2-B-23A	Total/NA	Solid	5030C	
885-10998-25	P2-B-29A	Total/NA	Solid	5030C	
885-10998-26	P2-B-52A	Total/NA	Solid	5030C	
885-10998-27	P2-B-14A	Total/NA	Solid	5030C	
885-10998-28	P2-B-30A	Total/NA	Solid	5030C	
MB 885-11518/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-11518/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-11518/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-10998-9 MS	PS-41A	Total/NA	Solid	5030C	
885-10998-9 MSD	PS-41A	Total/NA	Solid	5030C	
885-10998-10 MS	PS-59A	Total/NA	Solid	5030C	
885-10998-10 MSD	PS-59A	Total/NA	Solid	5030C	

Prep Batch: 11537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-29	P2-B-1A	Total/NA	Solid	5030C	
885-10998-30	P2-B-6A	Total/NA	Solid	5030C	
885-10998-31	P2-B13	Total/NA	Solid	5030C	
MB 885-11537/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-11537/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-11537/3-A	Lab Control Sample	Total/NA	Solid	5030C	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

GC VOA

Analysis Batch: 11650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-1	PS-46A	Total/NA	Solid	8015M/D	11514
885-10998-2	PS-48A	Total/NA	Solid	8015M/D	11514
885-10998-3	PS-49A	Total/NA	Solid	8015M/D	11514
885-10998-4	PS-50A	Total/NA	Solid	8015M/D	11514
885-10998-5	PS-54A	Total/NA	Solid	8015M/D	11514
885-10998-6	PS-55A	Total/NA	Solid	8015M/D	11514
885-10998-7	PS-51A	Total/NA	Solid	8015M/D	11514
885-10998-8	PS-58A	Total/NA	Solid	8015M/D	11514
MB 885-11514/1-A	Method Blank	Total/NA	Solid	8015M/D	11514
LCS 885-11514/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11514

Analysis Batch: 11652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-1	PS-46A	Total/NA	Solid	8021B	11514
885-10998-2	PS-48A	Total/NA	Solid	8021B	11514
885-10998-3	PS-49A	Total/NA	Solid	8021B	11514
885-10998-4	PS-50A	Total/NA	Solid	8021B	11514
885-10998-5	PS-54A	Total/NA	Solid	8021B	11514
885-10998-6	PS-55A	Total/NA	Solid	8021B	11514
885-10998-7	PS-51A	Total/NA	Solid	8021B	11514
885-10998-8	PS-58A	Total/NA	Solid	8021B	11514
MB 885-11514/1-A	Method Blank	Total/NA	Solid	8021B	11514
LCS 885-11514/3-A	Lab Control Sample	Total/NA	Solid	8021B	11514

Analysis Batch: 11802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-9	PS-41A	Total/NA	Solid	8015M/D	11518
885-10998-10	PS-59A	Total/NA	Solid	8015M/D	11518
885-10998-11	P2-B-33A	Total/NA	Solid	8015M/D	11518
885-10998-12	P2-B-34A	Total/NA	Solid	8015M/D	11518
885-10998-13	P2-B-36A	Total/NA	Solid	8015M/D	11518
885-10998-14	P2-B-41A	Total/NA	Solid	8015M/D	11518
885-10998-15	P2-B-43A	Total/NA	Solid	8015M/D	11518
885-10998-16	P2-B-40A	Total/NA	Solid	8015M/D	11518
885-10998-17	P2-B-39A	Total/NA	Solid	8015M/D	11518
885-10998-18	P2-B-37A	Total/NA	Solid	8015M/D	11518
885-10998-19	P2-B-46A	Total/NA	Solid	8015M/D	11518
885-10998-20	P2-B-47A	Total/NA	Solid	8015M/D	11518
885-10998-21	P2-B-50A	Total/NA	Solid	8015M/D	11518
885-10998-22	P2-B-51A	Total/NA	Solid	8015M/D	11518
885-10998-23	P2-B-53A	Total/NA	Solid	8015M/D	11518
885-10998-24	P2-B-23A	Total/NA	Solid	8015M/D	11518
885-10998-25	P2-B-29A	Total/NA	Solid	8015M/D	11518
885-10998-26	P2-B-52A	Total/NA	Solid	8015M/D	11518
885-10998-27	P2-B-14A	Total/NA	Solid	8015M/D	11518
885-10998-28	P2-B-30A	Total/NA	Solid	8015M/D	11518
MB 885-11518/1-A	Method Blank	Total/NA	Solid	8015M/D	11518
LCS 885-11518/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11518
885-10998-9 MS	PS-41A	Total/NA	Solid	8015M/D	11518
885-10998-9 MSD	PS-41A	Total/NA	Solid	8015M/D	11518

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

GC VOA

Analysis Batch: 11805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-9	PS-41A	Total/NA	Solid	8021B	11518
885-10998-10	PS-59A	Total/NA	Solid	8021B	11518
885-10998-11	P2-B-33A	Total/NA	Solid	8021B	11518
885-10998-12	P2-B-34A	Total/NA	Solid	8021B	11518
885-10998-13	P2-B-36A	Total/NA	Solid	8021B	11518
885-10998-14	P2-B-41A	Total/NA	Solid	8021B	11518
885-10998-15	P2-B-43A	Total/NA	Solid	8021B	11518
885-10998-16	P2-B-40A	Total/NA	Solid	8021B	11518
885-10998-17	P2-B-39A	Total/NA	Solid	8021B	11518
885-10998-18	P2-B-37A	Total/NA	Solid	8021B	11518
885-10998-19	P2-B-46A	Total/NA	Solid	8021B	11518
885-10998-20	P2-B-47A	Total/NA	Solid	8021B	11518
885-10998-21	P2-B-50A	Total/NA	Solid	8021B	11518
885-10998-22	P2-B-51A	Total/NA	Solid	8021B	11518
885-10998-23	P2-B-53A	Total/NA	Solid	8021B	11518
885-10998-24	P2-B-23A	Total/NA	Solid	8021B	11518
885-10998-25	P2-B-29A	Total/NA	Solid	8021B	11518
885-10998-26	P2-B-52A	Total/NA	Solid	8021B	11518
885-10998-27	P2-B-14A	Total/NA	Solid	8021B	11518
885-10998-28	P2-B-30A	Total/NA	Solid	8021B	11518
MB 885-11518/1-A	Method Blank	Total/NA	Solid	8021B	11518
LCS 885-11518/3-A	Lab Control Sample	Total/NA	Solid	8021B	11518
885-10998-10 MS	PS-59A	Total/NA	Solid	8021B	11518
885-10998-10 MSD	PS-59A	Total/NA	Solid	8021B	11518

Analysis Batch: 11832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-29	P2-B-1A	Total/NA	Solid	8015M/D	11537
885-10998-30	P2-B-6A	Total/NA	Solid	8015M/D	11537
885-10998-31	P2-B13	Total/NA	Solid	8015M/D	11537
MB 885-11537/1-A	Method Blank	Total/NA	Solid	8015M/D	11537
LCS 885-11537/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11537

Analysis Batch: 11834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-29	P2-B-1A	Total/NA	Solid	8021B	11537
885-10998-30	P2-B-6A	Total/NA	Solid	8021B	11537
885-10998-31	P2-B13	Total/NA	Solid	8021B	11537
MB 885-11537/1-A	Method Blank	Total/NA	Solid	8021B	11537
LCS 885-11537/3-A	Lab Control Sample	Total/NA	Solid	8021B	11537

GC Semi VOA

Prep Batch: 11535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-1	PS-46A	Total/NA	Solid	SHAKE	
885-10998-2	PS-48A	Total/NA	Solid	SHAKE	
885-10998-3	PS-49A	Total/NA	Solid	SHAKE	
885-10998-4	PS-50A	Total/NA	Solid	SHAKE	
885-10998-5	PS-54A	Total/NA	Solid	SHAKE	
885-10998-6	PS-55A	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

GC Semi VOA (Continued)

Prep Batch: 11535 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-7	PS-51A	Total/NA	Solid	SHAKE	
885-10998-8	PS-58A	Total/NA	Solid	SHAKE	
MB 885-11535/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-11535/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 11566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-1	PS-46A	Total/NA	Solid	8015M/D	11535
885-10998-2	PS-48A	Total/NA	Solid	8015M/D	11535
885-10998-3	PS-49A	Total/NA	Solid	8015M/D	11535
885-10998-4	PS-50A	Total/NA	Solid	8015M/D	11535
885-10998-5	PS-54A	Total/NA	Solid	8015M/D	11535
885-10998-6	PS-55A	Total/NA	Solid	8015M/D	11535
885-10998-7	PS-51A	Total/NA	Solid	8015M/D	11535
885-10998-8	PS-58A	Total/NA	Solid	8015M/D	11535
885-10998-9	PS-41A	Total/NA	Solid	8015M/D	11580
885-10998-10	PS-59A	Total/NA	Solid	8015M/D	11580
885-10998-11	P2-B-33A	Total/NA	Solid	8015M/D	11580
885-10998-12	P2-B-34A	Total/NA	Solid	8015M/D	11580
885-10998-13	P2-B-36A	Total/NA	Solid	8015M/D	11580
885-10998-14	P2-B-41A	Total/NA	Solid	8015M/D	11580
885-10998-15	P2-B-43A	Total/NA	Solid	8015M/D	11580
885-10998-16	P2-B-40A	Total/NA	Solid	8015M/D	11580
885-10998-17	P2-B-39A	Total/NA	Solid	8015M/D	11580
885-10998-18	P2-B-37A	Total/NA	Solid	8015M/D	11580
885-10998-19	P2-B-46A	Total/NA	Solid	8015M/D	11580
885-10998-20	P2-B-47A	Total/NA	Solid	8015M/D	11580
885-10998-21	P2-B-50A	Total/NA	Solid	8015M/D	11580
885-10998-22	P2-B-51A	Total/NA	Solid	8015M/D	11580
885-10998-23	P2-B-53A	Total/NA	Solid	8015M/D	11580
885-10998-24	P2-B-23A	Total/NA	Solid	8015M/D	11580
885-10998-25	P2-B-29A	Total/NA	Solid	8015M/D	11580
885-10998-26	P2-B-52A	Total/NA	Solid	8015M/D	11580
885-10998-27	P2-B-14A	Total/NA	Solid	8015M/D	11580
885-10998-28	P2-B-30A	Total/NA	Solid	8015M/D	11580
885-10998-29	P2-B-1A	Total/NA	Solid	8015M/D	11592
885-10998-30	P2-B-6A	Total/NA	Solid	8015M/D	11592
885-10998-31	P2-B13	Total/NA	Solid	8015M/D	11592
MB 885-11535/1-A	Method Blank	Total/NA	Solid	8015M/D	11535
MB 885-11580/1-A	Method Blank	Total/NA	Solid	8015M/D	11580
MB 885-11592/1-A	Method Blank	Total/NA	Solid	8015M/D	11592
LCS 885-11535/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11535
LCS 885-11580/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11580
LCS 885-11592/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11592
885-10998-28 MS	P2-B-30A	Total/NA	Solid	8015M/D	11580
885-10998-28 MSD	P2-B-30A	Total/NA	Solid	8015M/D	11580

Prep Batch: 11580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-9	PS-41A	Total/NA	Solid	SHAKE	
885-10998-10	PS-59A	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

GC Semi VOA (Continued)

Prep Batch: 11580 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-11	P2-B-33A	Total/NA	Solid	SHAKE	
885-10998-12	P2-B-34A	Total/NA	Solid	SHAKE	
885-10998-13	P2-B-36A	Total/NA	Solid	SHAKE	
885-10998-14	P2-B-41A	Total/NA	Solid	SHAKE	
885-10998-15	P2-B-43A	Total/NA	Solid	SHAKE	
885-10998-16	P2-B-40A	Total/NA	Solid	SHAKE	
885-10998-17	P2-B-39A	Total/NA	Solid	SHAKE	
885-10998-18	P2-B-37A	Total/NA	Solid	SHAKE	
885-10998-19	P2-B-46A	Total/NA	Solid	SHAKE	
885-10998-20	P2-B-47A	Total/NA	Solid	SHAKE	
885-10998-21	P2-B-50A	Total/NA	Solid	SHAKE	
885-10998-22	P2-B-51A	Total/NA	Solid	SHAKE	
885-10998-23	P2-B-53A	Total/NA	Solid	SHAKE	
885-10998-24	P2-B-23A	Total/NA	Solid	SHAKE	
885-10998-25	P2-B-29A	Total/NA	Solid	SHAKE	
885-10998-26	P2-B-52A	Total/NA	Solid	SHAKE	
885-10998-27	P2-B-14A	Total/NA	Solid	SHAKE	
885-10998-28	P2-B-30A	Total/NA	Solid	SHAKE	
MB 885-11580/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-11580/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-10998-28 MS	P2-B-30A	Total/NA	Solid	SHAKE	
885-10998-28 MSD	P2-B-30A	Total/NA	Solid	SHAKE	

Prep Batch: 11592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-29	P2-B-1A	Total/NA	Solid	SHAKE	
885-10998-30	P2-B-6A	Total/NA	Solid	SHAKE	
885-10998-31	P2-B13	Total/NA	Solid	SHAKE	
MB 885-11592/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-11592/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 11588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-1	PS-46A	Total/NA	Solid	300_Prep	
885-10998-2	PS-48A	Total/NA	Solid	300_Prep	
MB 885-11588/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-11588/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 11596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-3	PS-49A	Total/NA	Solid	300_Prep	
885-10998-4	PS-50A	Total/NA	Solid	300_Prep	
885-10998-5	PS-54A	Total/NA	Solid	300_Prep	
885-10998-6	PS-55A	Total/NA	Solid	300_Prep	
885-10998-7	PS-51A	Total/NA	Solid	300_Prep	
885-10998-8	PS-58A	Total/NA	Solid	300_Prep	
MB 885-11596/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-11596/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-10998-6 MS	PS-55A	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

HPLC/IC (Continued)

Prep Batch: 11596 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-6 MSD	PS-55A	Total/NA	Solid	300_Prep	

Analysis Batch: 11605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-9	PS-41A	Total/NA	Solid	300.0	11610
885-10998-10	PS-59A	Total/NA	Solid	300.0	11610
885-10998-11	P2-B-33A	Total/NA	Solid	300.0	11610
885-10998-12	P2-B-34A	Total/NA	Solid	300.0	11610
885-10998-13	P2-B-36A	Total/NA	Solid	300.0	11610
885-10998-14	P2-B-41A	Total/NA	Solid	300.0	11610
885-10998-15	P2-B-43A	Total/NA	Solid	300.0	11610
885-10998-16	P2-B-40A	Total/NA	Solid	300.0	11610
885-10998-17	P2-B-39A	Total/NA	Solid	300.0	11610
885-10998-18	P2-B-37A	Total/NA	Solid	300.0	11610
885-10998-19	P2-B-46A	Total/NA	Solid	300.0	11610
885-10998-20	P2-B-47A	Total/NA	Solid	300.0	11610
885-10998-21	P2-B-50A	Total/NA	Solid	300.0	11610
885-10998-22	P2-B-51A	Total/NA	Solid	300.0	11610
885-10998-23	P2-B-53A	Total/NA	Solid	300.0	11610
885-10998-24	P2-B-23A	Total/NA	Solid	300.0	11610
885-10998-25	P2-B-29A	Total/NA	Solid	300.0	11610
885-10998-26	P2-B-52A	Total/NA	Solid	300.0	11610
885-10998-27	P2-B-14A	Total/NA	Solid	300.0	11610
885-10998-28	P2-B-30A	Total/NA	Solid	300.0	11610
MB 885-11610/1-A	Method Blank	Total/NA	Solid	300.0	11610
LCS 885-11610/2-A	Lab Control Sample	Total/NA	Solid	300.0	11610
885-10998-9 MS	PS-41A	Total/NA	Solid	300.0	11610
885-10998-9 MSD	PS-41A	Total/NA	Solid	300.0	11610
885-10998-19 MS	P2-B-46A	Total/NA	Solid	300.0	11610

Prep Batch: 11610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-9	PS-41A	Total/NA	Solid	300_Prep	
885-10998-10	PS-59A	Total/NA	Solid	300_Prep	
885-10998-11	P2-B-33A	Total/NA	Solid	300_Prep	
885-10998-12	P2-B-34A	Total/NA	Solid	300_Prep	
885-10998-13	P2-B-36A	Total/NA	Solid	300_Prep	
885-10998-14	P2-B-41A	Total/NA	Solid	300_Prep	
885-10998-15	P2-B-43A	Total/NA	Solid	300_Prep	
885-10998-16	P2-B-40A	Total/NA	Solid	300_Prep	
885-10998-17	P2-B-39A	Total/NA	Solid	300_Prep	
885-10998-18	P2-B-37A	Total/NA	Solid	300_Prep	
885-10998-19	P2-B-46A	Total/NA	Solid	300_Prep	
885-10998-20	P2-B-47A	Total/NA	Solid	300_Prep	
885-10998-21	P2-B-50A	Total/NA	Solid	300_Prep	
885-10998-22	P2-B-51A	Total/NA	Solid	300_Prep	
885-10998-23	P2-B-53A	Total/NA	Solid	300_Prep	
885-10998-24	P2-B-23A	Total/NA	Solid	300_Prep	
885-10998-25	P2-B-29A	Total/NA	Solid	300_Prep	
885-10998-26	P2-B-52A	Total/NA	Solid	300_Prep	
885-10998-27	P2-B-14A	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

HPLC/IC (Continued)

Prep Batch: 11610 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-28	P2-B-30A	Total/NA	Solid	300_Prep	
MB 885-11610/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-11610/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-10998-9 MS	PS-41A	Total/NA	Solid	300_Prep	
885-10998-9 MSD	PS-41A	Total/NA	Solid	300_Prep	
885-10998-19 MS	P2-B-46A	Total/NA	Solid	300_Prep	

Prep Batch: 11622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-29	P2-B-1A	Total/NA	Solid	300_Prep	
885-10998-30	P2-B-6A	Total/NA	Solid	300_Prep	
885-10998-31	P2-B13	Total/NA	Solid	300_Prep	
MB 885-11622/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-11622/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 11640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-3	PS-49A	Total/NA	Solid	300.0	11596
885-10998-4	PS-50A	Total/NA	Solid	300.0	11596
885-10998-5	PS-54A	Total/NA	Solid	300.0	11596
885-10998-6	PS-55A	Total/NA	Solid	300.0	11596
885-10998-7	PS-51A	Total/NA	Solid	300.0	11596
885-10998-8	PS-58A	Total/NA	Solid	300.0	11596
MB 885-11596/1-A	Method Blank	Total/NA	Solid	300.0	11596
LCS 885-11596/2-A	Lab Control Sample	Total/NA	Solid	300.0	11596
885-10998-6 MS	PS-55A	Total/NA	Solid	300.0	11596
885-10998-6 MSD	PS-55A	Total/NA	Solid	300.0	11596

Analysis Batch: 11665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-1	PS-46A	Total/NA	Solid	300.0	11588
885-10998-2	PS-48A	Total/NA	Solid	300.0	11588
MB 885-11588/1-A	Method Blank	Total/NA	Solid	300.0	11588
LCS 885-11588/2-A	Lab Control Sample	Total/NA	Solid	300.0	11588

Analysis Batch: 11669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10998-29	P2-B-1A	Total/NA	Solid	300.0	11622
885-10998-30	P2-B-6A	Total/NA	Solid	300.0	11622
885-10998-31	P2-B13	Total/NA	Solid	300.0	11622
MB 885-11622/1-A	Method Blank	Total/NA	Solid	300.0	11622
LCS 885-11622/2-A	Lab Control Sample	Total/NA	Solid	300.0	11622

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-46A
Date Collected: 08/29/24 11:40
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8015M/D		1	11650	AT	EET ALB	09/05/24 05:28
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8021B		1	11652	AT	EET ALB	09/05/24 05:28
Total/NA	Prep	SHAKE			11535	EM	EET ALB	09/03/24 15:02
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 11:31
Total/NA	Prep	300_Prep			11588	EH	EET ALB	09/04/24 11:40
Total/NA	Analysis	300.0		20	11665	JT	EET ALB	09/05/24 00:33

Client Sample ID: PS-48A
Date Collected: 08/29/24 11:42
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8015M/D		1	11650	AT	EET ALB	09/05/24 05:49
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8021B		1	11652	AT	EET ALB	09/05/24 05:49
Total/NA	Prep	SHAKE			11535	EM	EET ALB	09/03/24 15:02
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 11:42
Total/NA	Prep	300_Prep			11588	EH	EET ALB	09/04/24 11:40
Total/NA	Analysis	300.0		20	11665	JT	EET ALB	09/05/24 00:46

Client Sample ID: PS-49A
Date Collected: 08/29/24 11:46
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8015M/D		1	11650	AT	EET ALB	09/05/24 06:11
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8021B		1	11652	AT	EET ALB	09/05/24 06:11
Total/NA	Prep	SHAKE			11535	EM	EET ALB	09/03/24 15:02
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 11:53
Total/NA	Prep	300_Prep			11596	EH	EET ALB	09/04/24 12:51
Total/NA	Analysis	300.0		20	11640	JT	EET ALB	09/04/24 17:14

Client Sample ID: PS-50A
Date Collected: 08/29/24 11:50
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8015M/D		1	11650	AT	EET ALB	09/05/24 06:33

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-50A

Lab Sample ID: 885-10998-4

Date Collected: 08/29/24 11:50
Date Received: 08/31/24 09:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8021B		1	11652	AT	EET ALB	09/05/24 06:33
Total/NA	Prep	SHAKE			11535	EM	EET ALB	09/03/24 15:02
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 12:03
Total/NA	Prep	300_Prep			11596	EH	EET ALB	09/04/24 12:51
Total/NA	Analysis	300.0		20	11640	JT	EET ALB	09/04/24 17:27

Client Sample ID: PS-54A

Lab Sample ID: 885-10998-5

Date Collected: 08/29/24 11:54
Date Received: 08/31/24 09:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8015M/D		1	11650	AT	EET ALB	09/05/24 06:55
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8021B		1	11652	AT	EET ALB	09/05/24 06:55
Total/NA	Prep	SHAKE			11535	EM	EET ALB	09/03/24 15:02
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 12:14
Total/NA	Prep	300_Prep			11596	EH	EET ALB	09/04/24 12:51
Total/NA	Analysis	300.0		20	11640	JT	EET ALB	09/04/24 17:39

Client Sample ID: PS-55A

Lab Sample ID: 885-10998-6

Date Collected: 08/29/24 12:00
Date Received: 08/31/24 09:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8015M/D		1	11650	AT	EET ALB	09/05/24 07:17
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8021B		1	11652	AT	EET ALB	09/05/24 07:17
Total/NA	Prep	SHAKE			11535	EM	EET ALB	09/03/24 15:02
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 12:25
Total/NA	Prep	300_Prep			11596	EH	EET ALB	09/04/24 12:51
Total/NA	Analysis	300.0		20	11640	JT	EET ALB	09/04/24 17:52

Client Sample ID: PS-51A

Lab Sample ID: 885-10998-7

Date Collected: 08/29/24 12:02
Date Received: 08/31/24 09:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8015M/D		1	11650	AT	EET ALB	09/05/24 07:38
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8021B		1	11652	AT	EET ALB	09/05/24 07:38

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-51A
Date Collected: 08/29/24 12:02
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			11535	EM	EET ALB	09/03/24 15:02
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 12:36
Total/NA	Prep	300_Prep			11596	EH	EET ALB	09/04/24 12:51
Total/NA	Analysis	300.0		20	11640	JT	EET ALB	09/04/24 18:31

Client Sample ID: PS-58A
Date Collected: 08/29/24 12:08
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8015M/D		1	11650	AT	EET ALB	09/05/24 08:00
Total/NA	Prep	5030C			11514	JP	EET ALB	09/03/24 11:24
Total/NA	Analysis	8021B		1	11652	AT	EET ALB	09/05/24 08:00
Total/NA	Prep	SHAKE			11535	EM	EET ALB	09/03/24 15:02
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 12:46
Total/NA	Prep	300_Prep			11596	EH	EET ALB	09/04/24 12:51
Total/NA	Analysis	300.0		20	11640	JT	EET ALB	09/04/24 18:44

Client Sample ID: PS-41A
Date Collected: 08/29/24 12:12
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/06/24 20:55
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/06/24 20:55
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 16:44
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 20:08

Client Sample ID: PS-59A
Date Collected: 08/29/24 12:14
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/06/24 22:00
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/06/24 22:00
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 16:55

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: PS-59A
Date Collected: 08/29/24 12:14
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 19:07

Client Sample ID: P2-B-33A
Date Collected: 08/29/24 13:02
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/06/24 23:05
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/06/24 23:05
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 17:06
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 19:23

Client Sample ID: P2-B-34A
Date Collected: 08/29/24 13:04
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/06/24 23:27
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/06/24 23:27
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 17:17
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 20:54

Client Sample ID: P2-B-36A
Date Collected: 08/29/24 13:08
Date Received: 08/31/24 09:30

Lab Sample ID: 885-10998-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/06/24 23:48
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/06/24 23:48
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 17:28
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 21:09

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-41A

Lab Sample ID: 885-10998-14

Date Collected: 08/29/24 13:12
Date Received: 08/31/24 09:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 00:10
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 00:10
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 17:39
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 21:24

Client Sample ID: P2-B-43A

Lab Sample ID: 885-10998-15

Date Collected: 08/29/24 13:20
Date Received: 08/31/24 09:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 00:32
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 00:32
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 17:51
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 21:40

Client Sample ID: P2-B-40A

Lab Sample ID: 885-10998-16

Date Collected: 08/29/24 13:24
Date Received: 08/31/24 09:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 00:54
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 00:54
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 18:02
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 21:55

Client Sample ID: P2-B-39A

Lab Sample ID: 885-10998-17

Date Collected: 08/29/24 13:26
Date Received: 08/31/24 09:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 01:15

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-39A

Lab Sample ID: 885-10998-17

Date Collected: 08/29/24 13:26
Date Received: 08/31/24 09:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 01:15
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 18:13
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 22:10

Client Sample ID: P2-B-37A

Lab Sample ID: 885-10998-18

Date Collected: 08/29/24 13:28
Date Received: 08/31/24 09:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 01:37
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 01:37
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 18:36
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 22:26

Client Sample ID: P2-B-46A

Lab Sample ID: 885-10998-19

Date Collected: 08/29/24 13:30
Date Received: 08/31/24 09:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 02:21
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 02:21
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 18:47
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 23:11

Client Sample ID: P2-B-47A

Lab Sample ID: 885-10998-20

Date Collected: 08/29/24 13:32
Date Received: 08/31/24 09:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 02:42
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 02:42

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-47A

Lab Sample ID: 885-10998-20

Date Collected: 08/29/24 13:32
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 18:59
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 23:57

Client Sample ID: P2-B-50A

Lab Sample ID: 885-10998-21

Date Collected: 08/29/24 13:34
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 03:04
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 03:04
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 19:10
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/05/24 00:12

Client Sample ID: P2-B-51A

Lab Sample ID: 885-10998-22

Date Collected: 08/29/24 13:36
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 03:26
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 03:26
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 19:21
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/05/24 00:27

Client Sample ID: P2-B-53A

Lab Sample ID: 885-10998-23

Date Collected: 08/29/24 13:40
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 03:48
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 03:48
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 19:33

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-10998-1

Client Sample ID: P2-B-53A

Lab Sample ID: 885-10998-23

Date Collected: 08/29/24 13:40
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/05/24 00:42

Client Sample ID: P2-B-23A

Lab Sample ID: 885-10998-24

Date Collected: 08/29/24 13:42
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 04:10
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 04:10
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 19:44
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/05/24 00:58

Client Sample ID: P2-B-29A

Lab Sample ID: 885-10998-25

Date Collected: 08/29/24 14:00
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 04:32
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 04:32
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 19:55
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/05/24 01:13

Client Sample ID: P2-B-52A

Lab Sample ID: 885-10998-26

Date Collected: 08/29/24 14:04
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 04:53
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 04:53
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 20:06
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/05/24 01:28

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-10998-1
Project/Site: Roy SWD #3

Client Sample ID: P2-B-14A
Lab Sample ID: 885-10998-27
Date Collected: 08/29/24 14:08
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 05:15
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 05:15
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 20:17
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/05/24 02:13

Client Sample ID: P2-B-30A
Lab Sample ID: 885-10998-28
Date Collected: 08/29/24 14:10
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8015M/D		1	11802	AT	EET ALB	09/07/24 05:37
Total/NA	Prep	5030C			11518	JP	EET ALB	09/03/24 12:26
Total/NA	Analysis	8021B		1	11805	AT	EET ALB	09/07/24 05:37
Total/NA	Prep	SHAKE			11580	EM	EET ALB	09/04/24 10:41
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 20:40
Total/NA	Prep	300_Prep			11610	EH	EET ALB	09/04/24 15:06
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/05/24 02:29

Client Sample ID: P2-B-1A
Lab Sample ID: 885-10998-29
Date Collected: 08/29/24 14:12
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11537	JP	EET ALB	09/03/24 16:02
Total/NA	Analysis	8015M/D		1	11832	AT	EET ALB	09/09/24 05:49
Total/NA	Prep	5030C			11537	JP	EET ALB	09/03/24 16:02
Total/NA	Analysis	8021B		1	11834	AT	EET ALB	09/09/24 05:49
Total/NA	Prep	SHAKE			11592	EM	EET ALB	09/04/24 12:18
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 22:18
Total/NA	Prep	300_Prep			11622	EH	EET ALB	09/04/24 16:58
Total/NA	Analysis	300.0		20	11669	EH	EET ALB	09/05/24 18:40

Client Sample ID: P2-B-6A
Lab Sample ID: 885-10998-30
Date Collected: 08/29/24 14:16
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11537	JP	EET ALB	09/03/24 16:02
Total/NA	Analysis	8015M/D		1	11832	AT	EET ALB	09/09/24 06:10

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-10998-1
Project/Site: Roy SWD #3

Client Sample ID: P2-B-6A
Lab Sample ID: 885-10998-30
Date Collected: 08/29/24 14:16
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11537	JP	EET ALB	09/03/24 16:02
Total/NA	Analysis	8021B		1	11834	AT	EET ALB	09/09/24 06:10
Total/NA	Prep	SHAKE			11592	EM	EET ALB	09/04/24 12:18
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 22:29
Total/NA	Prep	300_Prep			11622	EH	EET ALB	09/04/24 16:58
Total/NA	Analysis	300.0		20	11669	EH	EET ALB	09/05/24 18:53

Client Sample ID: P2-B13
Lab Sample ID: 885-10998-31
Date Collected: 08/29/24 14:20
Matrix: Solid
Date Received: 08/31/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11537	JP	EET ALB	09/03/24 16:02
Total/NA	Analysis	8015M/D		1	11832	AT	EET ALB	09/09/24 06:32
Total/NA	Prep	5030C			11537	JP	EET ALB	09/03/24 16:02
Total/NA	Analysis	8021B		1	11834	AT	EET ALB	09/09/24 06:32
Total/NA	Prep	SHAKE			11592	EM	EET ALB	09/04/24 12:18
Total/NA	Analysis	8015M/D		1	11566	EM	EET ALB	09/04/24 22:41
Total/NA	Prep	300_Prep			11622	EH	EET ALB	09/04/24 16:58
Total/NA	Analysis	300.0		20	11669	EH	EET ALB	09/05/24 19:05

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-10998-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-10998 COC

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No Yogi

# of Coolers: 1

Cooler Temp(including CF): 5.4 ±0 = 5.4 °C

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/29/24	1140	SOIL	PS-46A	1x4oz Jar	ICE	1	X	X	X
	1142		PS-48A			2			
	1146		PS-49A			3			
	1150		PS-50A			4			
	1154		PS-54A			5			
	1200		PS-55A			6			
	1202		PS-51A			7			
	1208		PS-58A			8			
	1212		PS-41A			9			
	1214		PS-59A			10			
	1302		P2-B-33A			11			
	1304		P2-B-34A			12			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/30/24	830				8/30/24	830
8/30/24	1500			courier	8/31/24	9:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.4 +0 = 5.4 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/29/24	1308	SOIL	P2-B-36A	1x4oz Jar	ICE	13	X	X	X
	1312		P2-B-41A			14			
	1320		P2-B-43A			15			
	1324		P2-B-40A			16			
	1326		P2-B-39A			17			
	1328		P2-B-37A			18			
	1330		P2-B-46A			19			
	1332		P2-B-47A			20			
	1334		P2-B-50A			21			
	1336		P2-B-51A			22			
	1340		P2-B-53A			23			
	1342		P2-B-23A			24			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/30/24	850				8/30/24	850
8/30/24	1900			Courier	8/31/24	9:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.4 +0 = 5.4 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/29/24	1400	SOIL	P2-B-29A	1x4oz Jar	ICE	25	X	X	X
	1404		P2-B-52A			26			
	1408		P2-B-14A			27			
	1410		P2-B-30A			28			
	1412		P2-B-1A			29			
	1416		P2-B-6A			30			
	1420		P2-B13			31			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/30/24	830				8/30/24	830
Date:	Time:	Relinquished by:	Received by:	Via: courier	Date	Time
8/30/24	1700				8/31/24	9:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-10998-1

Login Number: 10998 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 10/3/2024 3:25:08 PM

JOB DESCRIPTION

Roy SWD#3

JOB NUMBER

885-12151-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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10/3/2024 3:25:08 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Laboratory Job ID: 885-12151-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-12151-1
Project/Site: Roy SWD#3

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD#3

Job ID: 885-12151-1

Job ID: 885-12151-1 Eurofins Albuquerque

Job Narrative
885-12151-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/19/2024 7:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_OF_28D_PREC: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-12924 and analytical batch 885-12906 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-W31

Date Collected: 09/17/24 09:20
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 10:24	09/23/24 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*09/20/24 10:24*	*09/23/24 16:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 10:24	09/23/24 16:01	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 16:01	1
Toluene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 16:01	1
Xylenes, Total	ND		0.095		mg/Kg		09/20/24 10:24	09/23/24 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*09/20/24 10:24*	*09/23/24 16:01*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/23/24 10:34	09/23/24 14:02	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/23/24 10:34	09/23/24 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*09/23/24 10:34*	*09/23/24 14:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		60		mg/Kg		09/24/24 16:18	09/24/24 21:57	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-W32

Date Collected: 09/17/24 09:24
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 10:24	09/23/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*09/20/24 10:24*	*09/23/24 17:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 10:24	09/23/24 17:06	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 17:06	1
Toluene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 17:06	1
Xylenes, Total	ND		0.096		mg/Kg		09/20/24 10:24	09/23/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*09/20/24 10:24*	*09/23/24 17:06*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/23/24 10:34	09/23/24 14:12	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 10:34	09/23/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/23/24 10:34*	*09/23/24 14:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		60		mg/Kg		09/24/24 16:18	09/24/24 22:10	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-W33

Date Collected: 09/17/24 09:26
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/20/24 10:24	09/23/24 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/20/24 10:24*	*09/23/24 18:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 10:24	09/23/24 18:11	1
Ethylbenzene	ND		0.050		mg/Kg		09/20/24 10:24	09/23/24 18:11	1
Toluene	ND		0.050		mg/Kg		09/20/24 10:24	09/23/24 18:11	1
Xylenes, Total	ND		0.099		mg/Kg		09/20/24 10:24	09/23/24 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*09/20/24 10:24*	*09/23/24 18:11*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/23/24 10:34	09/23/24 14:23	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/23/24 10:34	09/23/24 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*09/23/24 10:34*	*09/23/24 14:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		09/24/24 16:18	09/24/24 23:14	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-W34

Date Collected: 09/17/24 09:30
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 10:24	09/23/24 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*09/20/24 10:24*	*09/23/24 18:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 10:24	09/23/24 18:33	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 18:33	1
Toluene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 18:33	1
Xylenes, Total	ND		0.097		mg/Kg		09/20/24 10:24	09/23/24 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/20/24 10:24*	*09/23/24 18:33*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/23/24 10:34	09/23/24 14:34	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/23/24 10:34	09/23/24 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*09/23/24 10:34*	*09/23/24 14:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		61		mg/Kg		09/24/24 16:18	09/24/24 23:27	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-W35

Date Collected: 09/17/24 09:34
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/20/24 10:24	09/23/24 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*09/20/24 10:24*	*09/23/24 18:55*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 10:24	09/23/24 18:55	1
Ethylbenzene	ND		0.049		mg/Kg		09/20/24 10:24	09/23/24 18:55	1
Toluene	ND		0.049		mg/Kg		09/20/24 10:24	09/23/24 18:55	1
Xylenes, Total	ND		0.098		mg/Kg		09/20/24 10:24	09/23/24 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*09/20/24 10:24*	*09/23/24 18:55*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/23/24 10:34	09/23/24 14:44	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/23/24 10:34	09/23/24 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/23/24 10:34*	*09/23/24 14:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**770**		60		mg/Kg		09/24/24 16:18	09/24/24 23:40	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-W36

Date Collected: 09/17/24 09:36
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 10:24	09/23/24 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*09/20/24 10:24*	*09/23/24 19:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 10:24	09/23/24 19:16	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 19:16	1
Toluene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 19:16	1
Xylenes, Total	ND		0.096		mg/Kg		09/20/24 10:24	09/23/24 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*09/20/24 10:24*	*09/23/24 19:16*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/23/24 10:34	09/23/24 14:55	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/23/24 10:34	09/23/24 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*62 - 134*	*09/23/24 10:34*	*09/23/24 14:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**430**		60		mg/Kg		09/24/24 16:18	09/24/24 23:53	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW1

Date Collected: 09/17/24 10:10
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/20/24 10:24	09/23/24 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/20/24 10:24*	*09/23/24 19:38*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 10:24	09/23/24 19:38	1
Ethylbenzene	ND		0.050		mg/Kg		09/20/24 10:24	09/23/24 19:38	1
Toluene	ND		0.050		mg/Kg		09/20/24 10:24	09/23/24 19:38	1
Xylenes, Total	ND		0.10		mg/Kg		09/20/24 10:24	09/23/24 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*09/20/24 10:24*	*09/23/24 19:38*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/23/24 10:34	09/23/24 15:06	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/23/24 10:34	09/23/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*09/23/24 10:34*	*09/23/24 15:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		60		mg/Kg		09/24/24 16:18	09/25/24 00:06	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW2

Date Collected: 09/17/24 10:20
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 10:24	09/23/24 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*09/20/24 10:24*	*09/23/24 19:59*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 10:24	09/23/24 19:59	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 19:59	1
Toluene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 19:59	1
Xylenes, Total	ND		0.096		mg/Kg		09/20/24 10:24	09/23/24 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*09/20/24 10:24*	*09/23/24 19:59*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/23/24 10:34	09/23/24 15:17	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/23/24 10:34	09/23/24 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*09/23/24 10:34*	*09/23/24 15:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		60		mg/Kg		09/24/24 16:18	09/25/24 00:18	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW2.2

Date Collected: 09/17/24 10:24
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 10:24	09/23/24 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*09/20/24 10:24*	*09/23/24 20:21*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 10:24	09/23/24 20:21	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 20:21	1
Toluene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 20:21	1
Xylenes, Total	ND		0.097		mg/Kg		09/20/24 10:24	09/23/24 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/20/24 10:24*	*09/23/24 20:21*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/23/24 10:34	09/23/24 15:38	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 10:34	09/23/24 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*09/23/24 10:34*	*09/23/24 15:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3700**		150		mg/Kg		09/24/24 16:18	09/25/24 17:09	50

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW3

Date Collected: 09/17/24 10:26
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/20/24 10:24	09/23/24 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*09/20/24 10:24*	*09/23/24 20:43*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/20/24 10:24	09/23/24 20:43	1
Ethylbenzene	ND		0.047		mg/Kg		09/20/24 10:24	09/23/24 20:43	1
Toluene	ND		0.047		mg/Kg		09/20/24 10:24	09/23/24 20:43	1
Xylenes, Total	ND		0.094		mg/Kg		09/20/24 10:24	09/23/24 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/20/24 10:24*	*09/23/24 20:43*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/23/24 10:34	09/23/24 15:49	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 10:34	09/23/24 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*09/23/24 10:34*	*09/23/24 15:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		61		mg/Kg		09/24/24 16:18	09/25/24 00:44	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW4

Date Collected: 09/17/24 10:30
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/20/24 10:24	09/23/24 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*09/20/24 10:24*	*09/23/24 21:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 10:24	09/23/24 21:26	1
Ethylbenzene	ND		0.049		mg/Kg		09/20/24 10:24	09/23/24 21:26	1
Toluene	ND		0.049		mg/Kg		09/20/24 10:24	09/23/24 21:26	1
Xylenes, Total	ND		0.097		mg/Kg		09/20/24 10:24	09/23/24 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/20/24 10:24*	*09/23/24 21:26*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/23/24 10:34	09/23/24 16:00	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/23/24 10:34	09/23/24 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*109*		*62 - 134*	*09/23/24 10:34*	*09/23/24 16:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**330**		61		mg/Kg		09/24/24 16:18	09/25/24 01:23	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW5
Date Collected: 09/17/24 10:32
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-12
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/20/24 10:24	09/23/24 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*35 - 166*	*09/20/24 10:24*	*09/23/24 21:48*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 10:24	09/23/24 21:48	1
Ethylbenzene	ND		0.050		mg/Kg		09/20/24 10:24	09/23/24 21:48	1
Toluene	ND		0.050		mg/Kg		09/20/24 10:24	09/23/24 21:48	1
Xylenes, Total	ND		0.10		mg/Kg		09/20/24 10:24	09/23/24 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/20/24 10:24*	*09/23/24 21:48*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/23/24 10:34	09/23/24 16:10	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 10:34	09/23/24 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*09/23/24 10:34*	*09/23/24 16:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		60		mg/Kg		09/24/24 16:18	09/25/24 02:01	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW6

Date Collected: 09/17/24 10:34
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-13

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/20/24 10:24	09/23/24 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*09/20/24 10:24*	*09/23/24 22:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 10:24	09/23/24 22:10	1
Ethylbenzene	ND		0.049		mg/Kg		09/20/24 10:24	09/23/24 22:10	1
Toluene	ND		0.049		mg/Kg		09/20/24 10:24	09/23/24 22:10	1
Xylenes, Total	ND		0.099		mg/Kg		09/20/24 10:24	09/23/24 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*09/20/24 10:24*	*09/23/24 22:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/23/24 10:34	09/23/24 16:21	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 10:34	09/23/24 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*09/23/24 10:34*	*09/23/24 16:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		60		mg/Kg		09/24/24 16:18	09/25/24 02:14	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW7

Date Collected: 09/17/24 10:46
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/20/24 10:24	09/23/24 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*09/20/24 10:24*	*09/23/24 22:32*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 10:24	09/23/24 22:32	1
Ethylbenzene	ND		0.049		mg/Kg		09/20/24 10:24	09/23/24 22:32	1
Toluene	ND		0.049		mg/Kg		09/20/24 10:24	09/23/24 22:32	1
Xylenes, Total	ND		0.099		mg/Kg		09/20/24 10:24	09/23/24 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*09/20/24 10:24*	*09/23/24 22:32*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/23/24 10:34	09/23/24 16:32	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 10:34	09/23/24 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*09/23/24 10:34*	*09/23/24 16:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		09/24/24 16:18	09/25/24 02:27	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW8

Date Collected: 09/17/24 10:48
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-15

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/20/24 10:24	09/23/24 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*09/20/24 10:24*	*09/23/24 23:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 10:24	09/23/24 23:15	1
Ethylbenzene	ND		0.049		mg/Kg		09/20/24 10:24	09/23/24 23:15	1
Toluene	ND		0.049		mg/Kg		09/20/24 10:24	09/23/24 23:15	1
Xylenes, Total	ND		0.098		mg/Kg		09/20/24 10:24	09/23/24 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/20/24 10:24*	*09/23/24 23:15*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/23/24 10:34	09/23/24 16:43	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/23/24 10:34	09/23/24 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*09/23/24 10:34*	*09/23/24 16:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1800**		60		mg/Kg		09/24/24 16:18	09/25/24 02:40	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW9

Date Collected: 09/17/24 10:50
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-16

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/20/24 10:24	09/23/24 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*09/20/24 10:24*	*09/23/24 23:37*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 10:24	09/23/24 23:37	1
Ethylbenzene	ND		0.050		mg/Kg		09/20/24 10:24	09/23/24 23:37	1
Toluene	ND		0.050		mg/Kg		09/20/24 10:24	09/23/24 23:37	1
Xylenes, Total	ND		0.10		mg/Kg		09/20/24 10:24	09/23/24 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*09/20/24 10:24*	*09/23/24 23:37*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/23/24 10:34	09/23/24 16:54	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/23/24 10:34	09/23/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/23/24 10:34*	*09/23/24 16:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60		mg/Kg		09/24/24 16:18	09/25/24 02:53	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW10

Date Collected: 09/17/24 11:20
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-17

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 11:17	09/24/24 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*35 - 166*	*09/20/24 11:17*	*09/24/24 17:25*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 11:17	09/24/24 17:25	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 11:17	09/24/24 17:25	1
Toluene	ND		0.048		mg/Kg		09/20/24 11:17	09/24/24 17:25	1
Xylenes, Total	ND		0.096		mg/Kg		09/20/24 11:17	09/24/24 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/20/24 11:17*	*09/24/24 17:25*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/23/24 10:34	09/23/24 17:05	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 10:34	09/23/24 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/23/24 10:34*	*09/23/24 17:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2100**		150		mg/Kg		09/24/24 16:18	09/25/24 17:22	50

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW11

Date Collected: 09/17/24 11:22
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-18

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 10:24	09/23/24 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*09/20/24 10:24*	*09/23/24 23:58*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 10:24	09/23/24 23:58	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 23:58	1
Toluene	ND		0.048		mg/Kg		09/20/24 10:24	09/23/24 23:58	1
Xylenes, Total	ND		0.097		mg/Kg		09/20/24 10:24	09/23/24 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/20/24 10:24*	*09/23/24 23:58*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/23/24 10:34	09/23/24 17:16	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 10:34	09/23/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*09/23/24 10:34*	*09/23/24 17:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2300**		60		mg/Kg		09/24/24 16:18	09/25/24 03:44	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW12

Date Collected: 09/17/24 11:24
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-19

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/20/24 11:17	09/24/24 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*35 - 166*	*09/20/24 11:17*	*09/24/24 18:31*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 11:17	09/24/24 18:31	1
Ethylbenzene	ND		0.049		mg/Kg		09/20/24 11:17	09/24/24 18:31	1
Toluene	ND		0.049		mg/Kg		09/20/24 11:17	09/24/24 18:31	1
Xylenes, Total	ND		0.098		mg/Kg		09/20/24 11:17	09/24/24 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/20/24 11:17*	*09/24/24 18:31*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/23/24 10:35	09/23/24 17:37	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/23/24 10:35	09/23/24 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/23/24 10:35*	*09/23/24 17:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2100**		150		mg/Kg		09/24/24 16:18	09/25/24 17:35	50

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW13

Date Collected: 09/17/24 11:26
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-20

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/20/24 11:17	09/24/24 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*09/20/24 11:17*	*09/24/24 19:36*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 11:17	09/24/24 19:36	1
Ethylbenzene	ND		0.050		mg/Kg		09/20/24 11:17	09/24/24 19:36	1
Toluene	ND		0.050		mg/Kg		09/20/24 11:17	09/24/24 19:36	1
Xylenes, Total	ND		0.099		mg/Kg		09/20/24 11:17	09/24/24 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/20/24 11:17*	*09/24/24 19:36*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/23/24 10:35	09/23/24 17:48	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 10:35	09/23/24 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/23/24 10:35*	*09/23/24 17:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		09/24/24 16:18	09/25/24 04:10	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW14

Date Collected: 09/17/24 11:30
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-21

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/20/24 11:17	09/24/24 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*09/20/24 11:17*	*09/24/24 19:57*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 11:17	09/24/24 19:57	1
Ethylbenzene	ND		0.049		mg/Kg		09/20/24 11:17	09/24/24 19:57	1
Toluene	ND		0.049		mg/Kg		09/20/24 11:17	09/24/24 19:57	1
Xylenes, Total	ND		0.099		mg/Kg		09/20/24 11:17	09/24/24 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/20/24 11:17*	*09/24/24 19:57*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/23/24 13:01	09/23/24 18:55	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 13:01	09/23/24 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*09/23/24 13:01*	*09/23/24 18:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		61		mg/Kg		09/24/24 15:58	09/24/24 19:49	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW15

Date Collected: 09/17/24 11:32
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-22

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 11:17	09/24/24 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*09/20/24 11:17*	*09/24/24 20:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 11:17	09/24/24 20:19	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 11:17	09/24/24 20:19	1
Toluene	ND		0.048		mg/Kg		09/20/24 11:17	09/24/24 20:19	1
Xylenes, Total	ND		0.096		mg/Kg		09/20/24 11:17	09/24/24 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/20/24 11:17*	*09/24/24 20:19*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/23/24 13:01	09/23/24 19:06	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/23/24 13:01	09/23/24 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/23/24 13:01*	*09/23/24 19:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		60		mg/Kg		09/24/24 15:58	09/24/24 20:27	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW16

Date Collected: 09/17/24 11:34
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-23

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 11:17	09/24/24 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/20/24 11:17*	*09/24/24 20:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 11:17	09/24/24 20:41	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 11:17	09/24/24 20:41	1
Toluene	ND		0.048		mg/Kg		09/20/24 11:17	09/24/24 20:41	1
Xylenes, Total	ND		0.095		mg/Kg		09/20/24 11:17	09/24/24 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/20/24 11:17*	*09/24/24 20:41*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/23/24 13:01	09/23/24 19:17	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 13:01	09/23/24 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*09/23/24 13:01*	*09/23/24 19:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**470**		60		mg/Kg		09/24/24 15:58	09/24/24 20:40	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW17

Date Collected: 09/17/24 11:40
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-24

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 11:17	09/24/24 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*35 - 166*	*09/20/24 11:17*	*09/24/24 21:03*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 11:17	09/24/24 21:03	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 11:17	09/24/24 21:03	1
Toluene	ND		0.048		mg/Kg		09/20/24 11:17	09/24/24 21:03	1
Xylenes, Total	ND		0.096		mg/Kg		09/20/24 11:17	09/24/24 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/20/24 11:17*	*09/24/24 21:03*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/23/24 13:01	09/23/24 19:28	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/23/24 13:01	09/23/24 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*09/23/24 13:01*	*09/23/24 19:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**680**		60		mg/Kg		09/24/24 15:58	09/24/24 20:53	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW18

Date Collected: 09/17/24 11:42
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-25

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 11:17	09/24/24 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*35 - 166*	*09/20/24 11:17*	*09/24/24 21:24*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 11:17	09/24/24 21:24	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 11:17	09/24/24 21:24	1
Toluene	ND		0.048		mg/Kg		09/20/24 11:17	09/24/24 21:24	1
Xylenes, Total	ND		0.095		mg/Kg		09/20/24 11:17	09/24/24 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/20/24 11:17*	*09/24/24 21:24*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/23/24 13:01	09/23/24 19:40	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/23/24 13:01	09/23/24 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/23/24 13:01*	*09/23/24 19:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**460**		60		mg/Kg		09/24/24 15:58	09/24/24 21:06	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-60

Date Collected: 09/17/24 14:00
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-26

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/20/24 11:17	09/24/24 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/20/24 11:17*	*09/24/24 21:46*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 11:17	09/24/24 21:46	1
Ethylbenzene	ND		0.049		mg/Kg		09/20/24 11:17	09/24/24 21:46	1
Toluene	ND		0.049		mg/Kg		09/20/24 11:17	09/24/24 21:46	1
Xylenes, Total	ND		0.097		mg/Kg		09/20/24 11:17	09/24/24 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/20/24 11:17*	*09/24/24 21:46*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/23/24 13:01	09/23/24 19:51	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/23/24 13:01	09/23/24 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*09/23/24 13:01*	*09/23/24 19:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1800**		60		mg/Kg		09/24/24 15:58	09/24/24 21:45	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-61

Date Collected: 09/17/24 14:02
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-27

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		09/20/24 11:17	09/24/24 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/20/24 11:17*	*09/24/24 22:08*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/20/24 11:17	09/24/24 22:08	1
Ethylbenzene	ND		0.046		mg/Kg		09/20/24 11:17	09/24/24 22:08	1
Toluene	ND		0.046		mg/Kg		09/20/24 11:17	09/24/24 22:08	1
Xylenes, Total	ND		0.092		mg/Kg		09/20/24 11:17	09/24/24 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/20/24 11:17*	*09/24/24 22:08*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/23/24 13:01	09/23/24 20:02	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/23/24 13:01	09/23/24 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*09/23/24 13:01*	*09/23/24 20:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		09/24/24 15:58	09/24/24 21:58	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-62

Date Collected: 09/17/24 14:06
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-28

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/20/24 11:17	09/24/24 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*09/20/24 11:17*	*09/24/24 22:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/20/24 11:17	09/24/24 22:51	1
Ethylbenzene	ND		0.047		mg/Kg		09/20/24 11:17	09/24/24 22:51	1
Toluene	ND		0.047		mg/Kg		09/20/24 11:17	09/24/24 22:51	1
Xylenes, Total	ND		0.093		mg/Kg		09/20/24 11:17	09/24/24 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*09/20/24 11:17*	*09/24/24 22:51*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/23/24 13:01	09/23/24 20:13	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/23/24 13:01	09/23/24 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*09/23/24 13:01*	*09/23/24 20:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		09/24/24 15:58	09/24/24 22:10	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-63

Date Collected: 09/17/24 14:08
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-29

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/20/24 11:17	09/24/24 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/20/24 11:17*	*09/24/24 23:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 11:17	09/24/24 23:13	1
Ethylbenzene	ND		0.050		mg/Kg		09/20/24 11:17	09/24/24 23:13	1
Toluene	ND		0.050		mg/Kg		09/20/24 11:17	09/24/24 23:13	1
Xylenes, Total	ND		0.099		mg/Kg		09/20/24 11:17	09/24/24 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*09/20/24 11:17*	*09/24/24 23:13*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/23/24 13:01	09/23/24 20:35	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 13:01	09/23/24 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*09/23/24 13:01*	*09/23/24 20:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		60		mg/Kg		09/24/24 15:58	09/24/24 22:23	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-64

Date Collected: 09/17/24 14:10
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-30

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/20/24 11:17	09/24/24 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*09/20/24 11:17*	*09/24/24 23:35*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 11:17	09/24/24 23:35	1
Ethylbenzene	ND		0.049		mg/Kg		09/20/24 11:17	09/24/24 23:35	1
Toluene	ND		0.049		mg/Kg		09/20/24 11:17	09/24/24 23:35	1
Xylenes, Total	ND		0.099		mg/Kg		09/20/24 11:17	09/24/24 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/20/24 11:17*	*09/24/24 23:35*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/23/24 13:01	09/23/24 20:46	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/23/24 13:01	09/23/24 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*09/23/24 13:01*	*09/23/24 20:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		09/24/24 15:58	09/24/24 22:36	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-65

Date Collected: 09/17/24 14:12
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-31

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/20/24 11:17	09/24/24 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*35 - 166*	*09/20/24 11:17*	*09/24/24 23:56*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 11:17	09/24/24 23:56	1
Ethylbenzene	ND		0.049		mg/Kg		09/20/24 11:17	09/24/24 23:56	1
Toluene	ND		0.049		mg/Kg		09/20/24 11:17	09/24/24 23:56	1
Xylenes, Total	ND		0.097		mg/Kg		09/20/24 11:17	09/24/24 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/20/24 11:17*	*09/24/24 23:56*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/23/24 13:01	09/23/24 20:57	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/23/24 13:01	09/23/24 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*09/23/24 13:01*	*09/23/24 20:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68**	**F1**	60		mg/Kg		09/24/24 15:58	09/24/24 22:49	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-66

Date Collected: 09/17/24 14:14
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-32

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 11:17	09/25/24 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*09/20/24 11:17*	*09/25/24 00:18*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 11:17	09/25/24 00:18	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 11:17	09/25/24 00:18	1
Toluene	ND		0.048		mg/Kg		09/20/24 11:17	09/25/24 00:18	1
Xylenes, Total	ND		0.097		mg/Kg		09/20/24 11:17	09/25/24 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/20/24 11:17*	*09/25/24 00:18*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/23/24 13:01	09/23/24 21:08	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/23/24 13:01	09/23/24 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*09/23/24 13:01*	*09/23/24 21:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		60		mg/Kg		09/24/24 15:58	09/24/24 23:28	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-67

Date Collected: 09/17/24 14:16
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-33

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/20/24 11:17	09/25/24 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*35 - 166*	*09/20/24 11:17*	*09/25/24 00:40*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 11:17	09/25/24 00:40	1
Ethylbenzene	ND		0.049		mg/Kg		09/20/24 11:17	09/25/24 00:40	1
Toluene	ND		0.049		mg/Kg		09/20/24 11:17	09/25/24 00:40	1
Xylenes, Total	ND		0.098		mg/Kg		09/20/24 11:17	09/25/24 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/20/24 11:17*	*09/25/24 00:40*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/23/24 13:01	09/23/24 21:19	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 13:01	09/23/24 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*09/23/24 13:01*	*09/23/24 21:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5200**		150		mg/Kg		09/24/24 15:58	09/25/24 15:39	50

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-68

Date Collected: 09/17/24 14:20
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-34

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 11:17	09/25/24 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/20/24 11:17*	*09/25/24 01:02*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 11:17	09/25/24 01:02	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 11:17	09/25/24 01:02	1
Toluene	ND		0.048		mg/Kg		09/20/24 11:17	09/25/24 01:02	1
Xylenes, Total	ND		0.096		mg/Kg		09/20/24 11:17	09/25/24 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/20/24 11:17*	*09/25/24 01:02*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/23/24 13:01	09/23/24 21:30	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/23/24 13:01	09/23/24 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/23/24 13:01*	*09/23/24 21:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6300**		300		mg/Kg		09/24/24 15:58	09/25/24 15:52	100

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-69

Date Collected: 09/17/24 14:24
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-35

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		09/20/24 11:17	09/25/24 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*35 - 166*	*09/20/24 11:17*	*09/25/24 01:23*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/20/24 11:17	09/25/24 01:23	1
Ethylbenzene	ND		0.046		mg/Kg		09/20/24 11:17	09/25/24 01:23	1
Toluene	ND		0.046		mg/Kg		09/20/24 11:17	09/25/24 01:23	1
Xylenes, Total	ND		0.092		mg/Kg		09/20/24 11:17	09/25/24 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/20/24 11:17*	*09/25/24 01:23*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/23/24 13:01	09/23/24 21:41	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/23/24 13:01	09/23/24 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*09/23/24 13:01*	*09/23/24 21:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1800**		60		mg/Kg		09/24/24 15:58	09/25/24 00:32	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-70

Date Collected: 09/17/24 14:30
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-36

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/20/24 11:17	09/25/24 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*09/20/24 11:17*	*09/25/24 01:45*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 11:17	09/25/24 01:45	1
Ethylbenzene	ND		0.047		mg/Kg		09/20/24 11:17	09/25/24 01:45	1
Toluene	ND		0.047		mg/Kg		09/20/24 11:17	09/25/24 01:45	1
Xylenes, Total	ND		0.095		mg/Kg		09/20/24 11:17	09/25/24 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/20/24 11:17*	*09/25/24 01:45*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/23/24 13:01	09/23/24 21:52	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/23/24 13:01	09/23/24 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*09/23/24 13:01*	*09/23/24 21:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**400**		60		mg/Kg		09/24/24 15:58	09/25/24 00:45	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-71

Date Collected: 09/17/24 14:32
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-37

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/20/24 11:17	09/25/24 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*09/20/24 11:17*	*09/25/24 02:07*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/20/24 11:17	09/25/24 02:07	1
Ethylbenzene	ND		0.048		mg/Kg		09/20/24 11:17	09/25/24 02:07	1
Toluene	ND		0.048		mg/Kg		09/20/24 11:17	09/25/24 02:07	1
Xylenes, Total	ND		0.097		mg/Kg		09/20/24 11:17	09/25/24 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/20/24 11:17*	*09/25/24 02:07*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/23/24 13:01	09/23/24 22:03	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/23/24 13:01	09/23/24 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/23/24 13:01*	*09/23/24 22:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		09/24/24 15:58	09/25/24 00:58	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-72

Date Collected: 09/17/24 14:40
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-38

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		09/20/24 14:22	09/23/24 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*09/20/24 14:22*	*09/23/24 19:29*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/20/24 14:22	09/23/24 19:29	1
Ethylbenzene	ND		0.046		mg/Kg		09/20/24 14:22	09/23/24 19:29	1
Toluene	ND		0.046		mg/Kg		09/20/24 14:22	09/23/24 19:29	1
Xylenes, Total	ND		0.092		mg/Kg		09/20/24 14:22	09/23/24 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*09/20/24 14:22*	*09/23/24 19:29*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/23/24 13:01	09/23/24 22:14	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/23/24 13:01	09/23/24 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*09/23/24 13:01*	*09/23/24 22:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		60		mg/Kg		09/24/24 15:58	09/25/24 01:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-W28A

Date Collected: 09/17/24 14:44
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-39

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/20/24 14:22	09/23/24 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*09/20/24 14:22*	*09/23/24 20:40*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 14:22	09/23/24 20:40	1
Ethylbenzene	ND		0.049		mg/Kg		09/20/24 14:22	09/23/24 20:40	1
Toluene	ND		0.049		mg/Kg		09/20/24 14:22	09/23/24 20:40	1
Xylenes, Total	ND		0.098		mg/Kg		09/20/24 14:22	09/23/24 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*09/20/24 14:22*	*09/23/24 20:40*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/23/24 13:01	09/23/24 22:36	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/23/24 13:01	09/23/24 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/23/24 13:01*	*09/23/24 22:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2700**		150		mg/Kg		09/24/24 15:58	09/25/24 16:44	50

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW6.6

Date Collected: 09/17/24 10:40
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-40

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/20/24 14:22	09/23/24 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*09/20/24 14:22*	*09/23/24 21:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/20/24 14:22	09/23/24 21:51	1
Ethylbenzene	ND		0.047		mg/Kg		09/20/24 14:22	09/23/24 21:51	1
Toluene	ND		0.047		mg/Kg		09/20/24 14:22	09/23/24 21:51	1
Xylenes, Total	ND		0.093		mg/Kg		09/20/24 14:22	09/23/24 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*09/20/24 14:22*	*09/23/24 21:51*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		09/23/24 13:01	09/23/24 22:47	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/23/24 13:01	09/23/24 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*09/23/24 13:01*	*09/23/24 22:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7400**		300		mg/Kg		09/24/24 15:58	09/25/24 16:56	100

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-12622/1-A
Matrix: Solid
Analysis Batch: 12865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12622

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/20/24 10:24	09/23/24 14:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/20/24 10:24*	*09/23/24 14:34*	*1*

Lab Sample ID: LCS 885-12622/2-A
Matrix: Solid
Analysis Batch: 12865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12622

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.2		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*221*		*35 - 166*

Lab Sample ID: 885-12151-1 MS
Matrix: Solid
Analysis Batch: 12865

Client Sample ID: PS-W31
Prep Type: Total/NA
Prep Batch: 12622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		23.9	22.7		mg/Kg		95	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*217*		*35 - 166*

Lab Sample ID: 885-12151-1 MSD
Matrix: Solid
Analysis Batch: 12865

Client Sample ID: PS-W31
Prep Type: Total/NA
Prep Batch: 12622

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		23.9	24.2		mg/Kg		101	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*222*		*35 - 166*

Lab Sample ID: MB 885-12630/1-A
Matrix: Solid
Analysis Batch: 12983

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12630

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/20/24 11:17	09/24/24 17:04	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 885-12630/1-A
Matrix: Solid
Analysis Batch: 12983

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12630

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		35 - 166	09/20/24 11:17	09/24/24 17:04	1

Lab Sample ID: LCS 885-12630/2-A
Matrix: Solid
Analysis Batch: 12983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12630

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.2		mg/Kg		101	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	212		35 - 166

Lab Sample ID: 885-12151-17 MS
Matrix: Solid
Analysis Batch: 12983

Client Sample ID: P2-IW10
Prep Type: Total/NA
Prep Batch: 12630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.0	21.5		mg/Kg		90	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	199		35 - 166

Lab Sample ID: 885-12151-17 MSD
Matrix: Solid
Analysis Batch: 12983

Client Sample ID: P2-IW10
Prep Type: Total/NA
Prep Batch: 12630

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.1	23.3		mg/Kg		97	70 - 130	8	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	215		35 - 166

Lab Sample ID: MB 885-12663/1-A
Matrix: Solid
Analysis Batch: 12849

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12663

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/20/24 14:22	09/23/24 17:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166	09/20/24 14:22	09/23/24 17:56	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 885-12663/2-A
Matrix: Solid
Analysis Batch: 12849

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12663

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.3		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*212*		*35 - 166*

Lab Sample ID: 885-12151-38 MS
Matrix: Solid
Analysis Batch: 12849

Client Sample ID: PS-72
Prep Type: Total/NA
Prep Batch: 12663

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		23.0	22.5		mg/Kg		98	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*210*		*35 - 166*

Lab Sample ID: 885-12151-38 MSD
Matrix: Solid
Analysis Batch: 12849

Client Sample ID: PS-72
Prep Type: Total/NA
Prep Batch: 12663

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		23.1	22.7		mg/Kg		98	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*212*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-12622/1-A
Matrix: Solid
Analysis Batch: 12867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12622

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 10:24	09/23/24 14:34	1
Ethylbenzene	ND		0.050		mg/Kg		09/20/24 10:24	09/23/24 14:34	1
Toluene	ND		0.050		mg/Kg		09/20/24 10:24	09/23/24 14:34	1
Xylenes, Total	ND		0.10		mg/Kg		09/20/24 10:24	09/23/24 14:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/20/24 10:24*	*09/23/24 14:34*	*1*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-12622/3-A
Matrix: Solid
Analysis Batch: 12867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12622

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.990		mg/Kg		99	70 - 130		
Ethylbenzene			1.00	1.03		mg/Kg		103	70 - 130		
Toluene			1.00	1.02		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			2.00	2.04		mg/Kg		102	70 - 130		
o-Xylene			1.00	0.991		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*

Lab Sample ID: 885-12151-2 MS
Matrix: Solid
Analysis Batch: 12867

Client Sample ID: P2-W32
Prep Type: Total/NA
Prep Batch: 12622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.967	0.951		mg/Kg		98	70 - 130		
Ethylbenzene	ND		0.967	0.978		mg/Kg		99	70 - 130		
Toluene	ND		0.967	0.973		mg/Kg		101	70 - 130		
m-Xylene & p-Xylene	ND		1.93	1.94		mg/Kg		100	70 - 130		
o-Xylene	ND		0.967	0.954		mg/Kg		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*

Lab Sample ID: 885-12151-2 MSD
Matrix: Solid
Analysis Batch: 12867

Client Sample ID: P2-W32
Prep Type: Total/NA
Prep Batch: 12622

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.961	0.915		mg/Kg		95	70 - 130	4	20
Ethylbenzene	ND		0.961	0.977		mg/Kg		100	70 - 130	0	20
Toluene	ND		0.961	0.958		mg/Kg		100	70 - 130	2	20
m-Xylene & p-Xylene	ND		1.92	1.94		mg/Kg		101	70 - 130	0	20
o-Xylene	ND		0.961	0.945		mg/Kg		98	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*

Lab Sample ID: MB 885-12630/1-A
Matrix: Solid
Analysis Batch: 12984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12630

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 11:17	09/24/24 17:04	1
Ethylbenzene	ND		0.050		mg/Kg		09/20/24 11:17	09/24/24 17:04	1
Toluene	ND		0.050		mg/Kg		09/20/24 11:17	09/24/24 17:04	1
Xylenes, Total	ND		0.10		mg/Kg		09/20/24 11:17	09/24/24 17:04	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-12630/1-A
Matrix: Solid
Analysis Batch: 12984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12630

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145	09/20/24 11:17	09/24/24 17:04	1

Lab Sample ID: LCS 885-12630/3-A
Matrix: Solid
Analysis Batch: 12984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.05		mg/Kg		105	70 - 130
Ethylbenzene	1.00	1.06		mg/Kg		106	70 - 130
Toluene	1.00	1.06		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	2.00	2.10		mg/Kg		105	70 - 130
o-Xylene	1.00	1.05		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		48 - 145

Lab Sample ID: 885-12151-19 MS
Matrix: Solid
Analysis Batch: 12984

Client Sample ID: P2-IW12
Prep Type: Total/NA
Prep Batch: 12630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.972	0.981		mg/Kg		101	70 - 130
Ethylbenzene	ND		0.972	1.02		mg/Kg		105	70 - 130
Toluene	ND		0.972	1.01		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	ND		1.94	2.03		mg/Kg		105	70 - 130
o-Xylene	ND		0.972	0.989		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		48 - 145

Lab Sample ID: 885-12151-19 MSD
Matrix: Solid
Analysis Batch: 12984

Client Sample ID: P2-IW12
Prep Type: Total/NA
Prep Batch: 12630

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.972	0.971		mg/Kg		100	70 - 130	1	20
Ethylbenzene	ND		0.972	1.02		mg/Kg		105	70 - 130	0	20
Toluene	ND		0.972	1.01		mg/Kg		104	70 - 130	0	20
m-Xylene & p-Xylene	ND		1.94	2.02		mg/Kg		104	70 - 130	0	20
o-Xylene	ND		0.972	0.993		mg/Kg		102	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		48 - 145

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-12663/1-A
Matrix: Solid
Analysis Batch: 12850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12663

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/20/24 14:22	09/23/24 17:56	1
Ethylbenzene	ND		0.050		mg/Kg		09/20/24 14:22	09/23/24 17:56	1
Toluene	ND		0.050		mg/Kg		09/20/24 14:22	09/23/24 17:56	1
Xylenes, Total	ND		0.10		mg/Kg		09/20/24 14:22	09/23/24 17:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*09/20/24 14:22*	*09/23/24 17:56*	*1*

Lab Sample ID: LCS 885-12663/3-A
Matrix: Solid
Analysis Batch: 12850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.939		mg/Kg		94	70 - 130
Ethylbenzene	1.00	0.984		mg/Kg		98	70 - 130
Toluene	1.00	0.964		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	2.00	1.96		mg/Kg		98	70 - 130
o-Xylene	1.00	0.955		mg/Kg		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*

Lab Sample ID: 885-12151-39 MS
Matrix: Solid
Analysis Batch: 12850

Client Sample ID: P2-W28A
Prep Type: Total/NA
Prep Batch: 12663

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.977	0.944		mg/Kg		97	70 - 130
Ethylbenzene	ND		0.977	0.996		mg/Kg		102	70 - 130
Toluene	ND		0.977	0.984		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	ND		1.95	2.02		mg/Kg		102	70 - 130
o-Xylene	ND		0.977	0.973		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*

Lab Sample ID: 885-12151-39 MSD
Matrix: Solid
Analysis Batch: 12850

Client Sample ID: P2-W28A
Prep Type: Total/NA
Prep Batch: 12663

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.973	0.921		mg/Kg		95	70 - 130	2	20
Ethylbenzene	ND		0.973	0.981		mg/Kg		101	70 - 130	2	20
Toluene	ND		0.973	0.964		mg/Kg		98	70 - 130	2	20
m-Xylene & p-Xylene	ND		1.95	1.96		mg/Kg		100	70 - 130	3	20
o-Xylene	ND		0.973	0.958		mg/Kg		98	70 - 130	2	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-12151-39 MSD
Matrix: Solid
Analysis Batch: 12850

Client Sample ID: P2-W28A
Prep Type: Total/NA
Prep Batch: 12663

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-12763/1-A
Matrix: Solid
Analysis Batch: 12749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12763

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/23/24 10:34	09/23/24 13:40	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/23/24 10:34	09/23/24 13:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*09/23/24 10:34*	*09/23/24 13:40*	*1*

Lab Sample ID: LCS 885-12763/2-A
Matrix: Solid
Analysis Batch: 12749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12763

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	49.2		mg/Kg		98	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*

Lab Sample ID: 885-12151-20 MS
Matrix: Solid
Analysis Batch: 12749

Client Sample ID: P2-IW13
Prep Type: Total/NA
Prep Batch: 12763

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		46.9	46.7		mg/Kg		100	44 - 136		

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*

Lab Sample ID: 885-12151-20 MSD
Matrix: Solid
Analysis Batch: 12749

Client Sample ID: P2-IW13
Prep Type: Total/NA
Prep Batch: 12763

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		46.7	46.1		mg/Kg		99	44 - 136	1	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-12773/1-A
Matrix: Solid
Analysis Batch: 12749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12773

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/23/24 13:01	09/23/24 18:33	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/23/24 13:01	09/23/24 18:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/23/24 13:01*	*09/23/24 18:33*	*1*

Lab Sample ID: LCS 885-12773/2-A
Matrix: Solid
Analysis Batch: 12749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12773

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	44.2		mg/Kg		88	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*

Lab Sample ID: 885-12151-40 MS
Matrix: Solid
Analysis Batch: 12749

Client Sample ID: P2-IW6.6
Prep Type: Total/NA
Prep Batch: 12773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		46.4	44.8		mg/Kg		96	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*

Lab Sample ID: 885-12151-40 MSD
Matrix: Solid
Analysis Batch: 12749

Client Sample ID: P2-IW6.6
Prep Type: Total/NA
Prep Batch: 12773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		47.7	45.9		mg/Kg		96	44 - 136	3	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-12924/1-A
Matrix: Solid
Analysis Batch: 12906

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12924

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/24/24 15:58	09/24/24 19:23	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-12924/2-A
Matrix: Solid
Analysis Batch: 12906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12924

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.8		mg/Kg		99	90 - 110		

Lab Sample ID: 885-12151-21 MS
Matrix: Solid
Analysis Batch: 12906

Client Sample ID: P2-IW14
Prep Type: Total/NA
Prep Batch: 12924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	190		30.1	228	4	mg/Kg		119	50 - 150		

Lab Sample ID: 885-12151-21 MSD
Matrix: Solid
Analysis Batch: 12906

Client Sample ID: P2-IW14
Prep Type: Total/NA
Prep Batch: 12924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	190		30.1	219	4	mg/Kg		91	50 - 150	4	20

Lab Sample ID: 885-12151-31 MS
Matrix: Solid
Analysis Batch: 12906

Client Sample ID: PS-65
Prep Type: Total/NA
Prep Batch: 12924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	68	F1	29.9	108		mg/Kg		133	50 - 150		

Lab Sample ID: MB 885-12930/1-A
Matrix: Solid
Analysis Batch: 12981

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12930

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/24/24 16:18	09/24/24 21:31	1

Lab Sample ID: LCS 885-12930/2-A
Matrix: Solid
Analysis Batch: 12981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12930

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	31.7		mg/Kg		106	90 - 110		

Lab Sample ID: 885-12151-1 MS
Matrix: Solid
Analysis Batch: 12981

Client Sample ID: PS-W31
Prep Type: Total/NA
Prep Batch: 12930

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	140		30.2	198	4	mg/Kg		177	50 - 150		

Lab Sample ID: 885-12151-1 MSD
Matrix: Solid
Analysis Batch: 12981

Client Sample ID: PS-W31
Prep Type: Total/NA
Prep Batch: 12930

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	140		29.9	172	4	mg/Kg		91	50 - 150	14	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-12151-11 MS
Matrix: Solid
Analysis Batch: 12981

Client Sample ID: P2-IW4
Prep Type: Total/NA
Prep Batch: 12930

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	330		30.1	354	4	mg/Kg		76	50 - 150

Lab Sample ID: 885-12151-11 MSD
Matrix: Solid
Analysis Batch: 12981

Client Sample ID: P2-IW4
Prep Type: Total/NA
Prep Batch: 12930

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	330		30.1	347	4	mg/Kg		53	50 - 150	2	20

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

GC VOA

Prep Batch: 12622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-1	PS-W31	Total/NA	Solid	5030C	
885-12151-2	P2-W32	Total/NA	Solid	5030C	
885-12151-3	P2-W33	Total/NA	Solid	5030C	
885-12151-4	P2-W34	Total/NA	Solid	5030C	
885-12151-5	P2-W35	Total/NA	Solid	5030C	
885-12151-6	P2-W36	Total/NA	Solid	5030C	
885-12151-7	P2-IW1	Total/NA	Solid	5030C	
885-12151-8	P2-IW2	Total/NA	Solid	5030C	
885-12151-9	P2-IW2.2	Total/NA	Solid	5030C	
885-12151-10	P2-IW3	Total/NA	Solid	5030C	
885-12151-11	P2-IW4	Total/NA	Solid	5030C	
885-12151-12	P2-IW5	Total/NA	Solid	5030C	
885-12151-13	P2-IW6	Total/NA	Solid	5030C	
885-12151-14	P2-IW7	Total/NA	Solid	5030C	
885-12151-15	P2-IW8	Total/NA	Solid	5030C	
885-12151-16	P2-IW9	Total/NA	Solid	5030C	
885-12151-18	P2-IW11	Total/NA	Solid	5030C	
MB 885-12622/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12622/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12622/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-12151-1 MS	PS-W31	Total/NA	Solid	5030C	
885-12151-1 MSD	PS-W31	Total/NA	Solid	5030C	
885-12151-2 MS	P2-W32	Total/NA	Solid	5030C	
885-12151-2 MSD	P2-W32	Total/NA	Solid	5030C	

Prep Batch: 12630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-17	P2-IW10	Total/NA	Solid	5030C	
885-12151-19	P2-IW12	Total/NA	Solid	5030C	
885-12151-20	P2-IW13	Total/NA	Solid	5030C	
885-12151-21	P2-IW14	Total/NA	Solid	5030C	
885-12151-22	P2-IW15	Total/NA	Solid	5030C	
885-12151-23	P2-IW16	Total/NA	Solid	5030C	
885-12151-24	P2-IW17	Total/NA	Solid	5030C	
885-12151-25	P2-IW18	Total/NA	Solid	5030C	
885-12151-26	PS-60	Total/NA	Solid	5030C	
885-12151-27	PS-61	Total/NA	Solid	5030C	
885-12151-28	PS-62	Total/NA	Solid	5030C	
885-12151-29	PS-63	Total/NA	Solid	5030C	
885-12151-30	PS-64	Total/NA	Solid	5030C	
885-12151-31	PS-65	Total/NA	Solid	5030C	
885-12151-32	PS-66	Total/NA	Solid	5030C	
885-12151-33	PS-67	Total/NA	Solid	5030C	
885-12151-34	PS-68	Total/NA	Solid	5030C	
885-12151-35	PS-69	Total/NA	Solid	5030C	
885-12151-36	PS-70	Total/NA	Solid	5030C	
885-12151-37	PS-71	Total/NA	Solid	5030C	
MB 885-12630/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12630/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12630/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-12151-17 MS	P2-IW10	Total/NA	Solid	5030C	

QC Association Summary

Client: Ranger Environmental Services, Inc Job ID: 885-12151-1
Project/Site: Roy SWD#3

GC VOA (Continued)

Prep Batch: 12630 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-17 MSD	P2-IW10	Total/NA	Solid	5030C	
885-12151-19 MS	P2-IW12	Total/NA	Solid	5030C	
885-12151-19 MSD	P2-IW12	Total/NA	Solid	5030C	

Prep Batch: 12663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-38	PS-72	Total/NA	Solid	5030C	
885-12151-39	P2-W28A	Total/NA	Solid	5030C	
885-12151-40	P2-IW6.6	Total/NA	Solid	5030C	
MB 885-12663/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12663/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12663/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-12151-38 MS	PS-72	Total/NA	Solid	5030C	
885-12151-38 MSD	PS-72	Total/NA	Solid	5030C	
885-12151-39 MS	P2-W28A	Total/NA	Solid	5030C	
885-12151-39 MSD	P2-W28A	Total/NA	Solid	5030C	

Analysis Batch: 12849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-38	PS-72	Total/NA	Solid	8015M/D	12663
885-12151-39	P2-W28A	Total/NA	Solid	8015M/D	12663
885-12151-40	P2-IW6.6	Total/NA	Solid	8015M/D	12663
MB 885-12663/1-A	Method Blank	Total/NA	Solid	8015M/D	12663
LCS 885-12663/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12663
885-12151-38 MS	PS-72	Total/NA	Solid	8015M/D	12663
885-12151-38 MSD	PS-72	Total/NA	Solid	8015M/D	12663

Analysis Batch: 12850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-38	PS-72	Total/NA	Solid	8021B	12663
885-12151-39	P2-W28A	Total/NA	Solid	8021B	12663
885-12151-40	P2-IW6.6	Total/NA	Solid	8021B	12663
MB 885-12663/1-A	Method Blank	Total/NA	Solid	8021B	12663
LCS 885-12663/3-A	Lab Control Sample	Total/NA	Solid	8021B	12663
885-12151-39 MS	P2-W28A	Total/NA	Solid	8021B	12663
885-12151-39 MSD	P2-W28A	Total/NA	Solid	8021B	12663

Analysis Batch: 12865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-1	PS-W31	Total/NA	Solid	8015M/D	12622
885-12151-2	P2-W32	Total/NA	Solid	8015M/D	12622
885-12151-3	P2-W33	Total/NA	Solid	8015M/D	12622
885-12151-4	P2-W34	Total/NA	Solid	8015M/D	12622
885-12151-5	P2-W35	Total/NA	Solid	8015M/D	12622
885-12151-6	P2-W36	Total/NA	Solid	8015M/D	12622
885-12151-7	P2-IW1	Total/NA	Solid	8015M/D	12622
885-12151-8	P2-IW2	Total/NA	Solid	8015M/D	12622
885-12151-9	P2-IW2.2	Total/NA	Solid	8015M/D	12622
885-12151-10	P2-IW3	Total/NA	Solid	8015M/D	12622
885-12151-11	P2-IW4	Total/NA	Solid	8015M/D	12622
885-12151-12	P2-IW5	Total/NA	Solid	8015M/D	12622

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

GC VOA (Continued)

Analysis Batch: 12865 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-13	P2-IW6	Total/NA	Solid	8015M/D	12622
885-12151-14	P2-IW7	Total/NA	Solid	8015M/D	12622
885-12151-15	P2-IW8	Total/NA	Solid	8015M/D	12622
885-12151-16	P2-IW9	Total/NA	Solid	8015M/D	12622
885-12151-18	P2-IW11	Total/NA	Solid	8015M/D	12622
MB 885-12622/1-A	Method Blank	Total/NA	Solid	8015M/D	12622
LCS 885-12622/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12622
885-12151-1 MS	PS-W31	Total/NA	Solid	8015M/D	12622
885-12151-1 MSD	PS-W31	Total/NA	Solid	8015M/D	12622

Analysis Batch: 12867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-1	PS-W31	Total/NA	Solid	8021B	12622
885-12151-2	P2-W32	Total/NA	Solid	8021B	12622
885-12151-3	P2-W33	Total/NA	Solid	8021B	12622
885-12151-4	P2-W34	Total/NA	Solid	8021B	12622
885-12151-5	P2-W35	Total/NA	Solid	8021B	12622
885-12151-6	P2-W36	Total/NA	Solid	8021B	12622
885-12151-7	P2-IW1	Total/NA	Solid	8021B	12622
885-12151-8	P2-IW2	Total/NA	Solid	8021B	12622
885-12151-9	P2-IW2.2	Total/NA	Solid	8021B	12622
885-12151-10	P2-IW3	Total/NA	Solid	8021B	12622
885-12151-11	P2-IW4	Total/NA	Solid	8021B	12622
885-12151-12	P2-IW5	Total/NA	Solid	8021B	12622
885-12151-13	P2-IW6	Total/NA	Solid	8021B	12622
885-12151-14	P2-IW7	Total/NA	Solid	8021B	12622
885-12151-15	P2-IW8	Total/NA	Solid	8021B	12622
885-12151-16	P2-IW9	Total/NA	Solid	8021B	12622
885-12151-18	P2-IW11	Total/NA	Solid	8021B	12622
MB 885-12622/1-A	Method Blank	Total/NA	Solid	8021B	12622
LCS 885-12622/3-A	Lab Control Sample	Total/NA	Solid	8021B	12622
885-12151-2 MS	P2-W32	Total/NA	Solid	8021B	12622
885-12151-2 MSD	P2-W32	Total/NA	Solid	8021B	12622

Analysis Batch: 12983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-17	P2-IW10	Total/NA	Solid	8015M/D	12630
885-12151-19	P2-IW12	Total/NA	Solid	8015M/D	12630
885-12151-20	P2-IW13	Total/NA	Solid	8015M/D	12630
885-12151-21	P2-IW14	Total/NA	Solid	8015M/D	12630
885-12151-22	P2-IW15	Total/NA	Solid	8015M/D	12630
885-12151-23	P2-IW16	Total/NA	Solid	8015M/D	12630
885-12151-24	P2-IW17	Total/NA	Solid	8015M/D	12630
885-12151-25	P2-IW18	Total/NA	Solid	8015M/D	12630
885-12151-26	PS-60	Total/NA	Solid	8015M/D	12630
885-12151-27	PS-61	Total/NA	Solid	8015M/D	12630
885-12151-28	PS-62	Total/NA	Solid	8015M/D	12630
885-12151-29	PS-63	Total/NA	Solid	8015M/D	12630
885-12151-30	PS-64	Total/NA	Solid	8015M/D	12630
885-12151-31	PS-65	Total/NA	Solid	8015M/D	12630
885-12151-32	PS-66	Total/NA	Solid	8015M/D	12630

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

GC VOA (Continued)

Analysis Batch: 12983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-33	PS-67	Total/NA	Solid	8015M/D	12630
885-12151-34	PS-68	Total/NA	Solid	8015M/D	12630
885-12151-35	PS-69	Total/NA	Solid	8015M/D	12630
885-12151-36	PS-70	Total/NA	Solid	8015M/D	12630
885-12151-37	PS-71	Total/NA	Solid	8015M/D	12630
MB 885-12630/1-A	Method Blank	Total/NA	Solid	8015M/D	12630
LCS 885-12630/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12630
885-12151-17 MS	P2-IW10	Total/NA	Solid	8015M/D	12630
885-12151-17 MSD	P2-IW10	Total/NA	Solid	8015M/D	12630

Analysis Batch: 12984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-17	P2-IW10	Total/NA	Solid	8021B	12630
885-12151-19	P2-IW12	Total/NA	Solid	8021B	12630
885-12151-20	P2-IW13	Total/NA	Solid	8021B	12630
885-12151-21	P2-IW14	Total/NA	Solid	8021B	12630
885-12151-22	P2-IW15	Total/NA	Solid	8021B	12630
885-12151-23	P2-IW16	Total/NA	Solid	8021B	12630
885-12151-24	P2-IW17	Total/NA	Solid	8021B	12630
885-12151-25	P2-IW18	Total/NA	Solid	8021B	12630
885-12151-26	PS-60	Total/NA	Solid	8021B	12630
885-12151-27	PS-61	Total/NA	Solid	8021B	12630
885-12151-28	PS-62	Total/NA	Solid	8021B	12630
885-12151-29	PS-63	Total/NA	Solid	8021B	12630
885-12151-30	PS-64	Total/NA	Solid	8021B	12630
885-12151-31	PS-65	Total/NA	Solid	8021B	12630
885-12151-32	PS-66	Total/NA	Solid	8021B	12630
885-12151-33	PS-67	Total/NA	Solid	8021B	12630
885-12151-34	PS-68	Total/NA	Solid	8021B	12630
885-12151-35	PS-69	Total/NA	Solid	8021B	12630
885-12151-36	PS-70	Total/NA	Solid	8021B	12630
885-12151-37	PS-71	Total/NA	Solid	8021B	12630
MB 885-12630/1-A	Method Blank	Total/NA	Solid	8021B	12630
LCS 885-12630/3-A	Lab Control Sample	Total/NA	Solid	8021B	12630
885-12151-19 MS	P2-IW12	Total/NA	Solid	8021B	12630
885-12151-19 MSD	P2-IW12	Total/NA	Solid	8021B	12630

GC Semi VOA

Analysis Batch: 12749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-1	PS-W31	Total/NA	Solid	8015M/D	12763
885-12151-2	P2-W32	Total/NA	Solid	8015M/D	12763
885-12151-3	P2-W33	Total/NA	Solid	8015M/D	12763
885-12151-4	P2-W34	Total/NA	Solid	8015M/D	12763
885-12151-5	P2-W35	Total/NA	Solid	8015M/D	12763
885-12151-6	P2-W36	Total/NA	Solid	8015M/D	12763
885-12151-7	P2-IW1	Total/NA	Solid	8015M/D	12763
885-12151-8	P2-IW2	Total/NA	Solid	8015M/D	12763
885-12151-9	P2-IW2.2	Total/NA	Solid	8015M/D	12763
885-12151-10	P2-IW3	Total/NA	Solid	8015M/D	12763

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

GC Semi VOA (Continued)

Analysis Batch: 12749 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-11	P2-IW4	Total/NA	Solid	8015M/D	12763
885-12151-12	P2-IW5	Total/NA	Solid	8015M/D	12763
885-12151-13	P2-IW6	Total/NA	Solid	8015M/D	12763
885-12151-14	P2-IW7	Total/NA	Solid	8015M/D	12763
885-12151-15	P2-IW8	Total/NA	Solid	8015M/D	12763
885-12151-16	P2-IW9	Total/NA	Solid	8015M/D	12763
885-12151-17	P2-IW10	Total/NA	Solid	8015M/D	12763
885-12151-18	P2-IW11	Total/NA	Solid	8015M/D	12763
885-12151-19	P2-IW12	Total/NA	Solid	8015M/D	12763
885-12151-20	P2-IW13	Total/NA	Solid	8015M/D	12763
885-12151-21	P2-IW14	Total/NA	Solid	8015M/D	12773
885-12151-22	P2-IW15	Total/NA	Solid	8015M/D	12773
885-12151-23	P2-IW16	Total/NA	Solid	8015M/D	12773
885-12151-24	P2-IW17	Total/NA	Solid	8015M/D	12773
885-12151-25	P2-IW18	Total/NA	Solid	8015M/D	12773
885-12151-26	PS-60	Total/NA	Solid	8015M/D	12773
885-12151-27	PS-61	Total/NA	Solid	8015M/D	12773
885-12151-28	PS-62	Total/NA	Solid	8015M/D	12773
885-12151-29	PS-63	Total/NA	Solid	8015M/D	12773
885-12151-30	PS-64	Total/NA	Solid	8015M/D	12773
885-12151-31	PS-65	Total/NA	Solid	8015M/D	12773
885-12151-32	PS-66	Total/NA	Solid	8015M/D	12773
885-12151-33	PS-67	Total/NA	Solid	8015M/D	12773
885-12151-34	PS-68	Total/NA	Solid	8015M/D	12773
885-12151-35	PS-69	Total/NA	Solid	8015M/D	12773
885-12151-36	PS-70	Total/NA	Solid	8015M/D	12773
885-12151-37	PS-71	Total/NA	Solid	8015M/D	12773
885-12151-38	PS-72	Total/NA	Solid	8015M/D	12773
885-12151-39	P2-W28A	Total/NA	Solid	8015M/D	12773
885-12151-40	P2-IW6.6	Total/NA	Solid	8015M/D	12773
MB 885-12763/1-A	Method Blank	Total/NA	Solid	8015M/D	12763
MB 885-12773/1-A	Method Blank	Total/NA	Solid	8015M/D	12773
LCS 885-12763/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12763
LCS 885-12773/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12773
885-12151-20 MS	P2-IW13	Total/NA	Solid	8015M/D	12763
885-12151-20 MSD	P2-IW13	Total/NA	Solid	8015M/D	12763
885-12151-40 MS	P2-IW6.6	Total/NA	Solid	8015M/D	12773
885-12151-40 MSD	P2-IW6.6	Total/NA	Solid	8015M/D	12773

Prep Batch: 12763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-1	PS-W31	Total/NA	Solid	SHAKE	
885-12151-2	P2-W32	Total/NA	Solid	SHAKE	
885-12151-3	P2-W33	Total/NA	Solid	SHAKE	
885-12151-4	P2-W34	Total/NA	Solid	SHAKE	
885-12151-5	P2-W35	Total/NA	Solid	SHAKE	
885-12151-6	P2-W36	Total/NA	Solid	SHAKE	
885-12151-7	P2-IW1	Total/NA	Solid	SHAKE	
885-12151-8	P2-IW2	Total/NA	Solid	SHAKE	
885-12151-9	P2-IW2.2	Total/NA	Solid	SHAKE	
885-12151-10	P2-IW3	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

GC Semi VOA (Continued)

Prep Batch: 12763 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-11	P2-IW4	Total/NA	Solid	SHAKE	
885-12151-12	P2-IW5	Total/NA	Solid	SHAKE	
885-12151-13	P2-IW6	Total/NA	Solid	SHAKE	
885-12151-14	P2-IW7	Total/NA	Solid	SHAKE	
885-12151-15	P2-IW8	Total/NA	Solid	SHAKE	
885-12151-16	P2-IW9	Total/NA	Solid	SHAKE	
885-12151-17	P2-IW10	Total/NA	Solid	SHAKE	
885-12151-18	P2-IW11	Total/NA	Solid	SHAKE	
885-12151-19	P2-IW12	Total/NA	Solid	SHAKE	
885-12151-20	P2-IW13	Total/NA	Solid	SHAKE	
MB 885-12763/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12763/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-12151-20 MS	P2-IW13	Total/NA	Solid	SHAKE	
885-12151-20 MSD	P2-IW13	Total/NA	Solid	SHAKE	

Prep Batch: 12773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-21	P2-IW14	Total/NA	Solid	SHAKE	
885-12151-22	P2-IW15	Total/NA	Solid	SHAKE	
885-12151-23	P2-IW16	Total/NA	Solid	SHAKE	
885-12151-24	P2-IW17	Total/NA	Solid	SHAKE	
885-12151-25	P2-IW18	Total/NA	Solid	SHAKE	
885-12151-26	PS-60	Total/NA	Solid	SHAKE	
885-12151-27	PS-61	Total/NA	Solid	SHAKE	
885-12151-28	PS-62	Total/NA	Solid	SHAKE	
885-12151-29	PS-63	Total/NA	Solid	SHAKE	
885-12151-30	PS-64	Total/NA	Solid	SHAKE	
885-12151-31	PS-65	Total/NA	Solid	SHAKE	
885-12151-32	PS-66	Total/NA	Solid	SHAKE	
885-12151-33	PS-67	Total/NA	Solid	SHAKE	
885-12151-34	PS-68	Total/NA	Solid	SHAKE	
885-12151-35	PS-69	Total/NA	Solid	SHAKE	
885-12151-36	PS-70	Total/NA	Solid	SHAKE	
885-12151-37	PS-71	Total/NA	Solid	SHAKE	
885-12151-38	PS-72	Total/NA	Solid	SHAKE	
885-12151-39	P2-W28A	Total/NA	Solid	SHAKE	
885-12151-40	P2-IW6.6	Total/NA	Solid	SHAKE	
MB 885-12773/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12773/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-12151-40 MS	P2-IW6.6	Total/NA	Solid	SHAKE	
885-12151-40 MSD	P2-IW6.6	Total/NA	Solid	SHAKE	

HPLC/IC

Analysis Batch: 12906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-21	P2-IW14	Total/NA	Solid	300.0	12924
885-12151-22	P2-IW15	Total/NA	Solid	300.0	12924
885-12151-23	P2-IW16	Total/NA	Solid	300.0	12924
885-12151-24	P2-IW17	Total/NA	Solid	300.0	12924
885-12151-25	P2-IW18	Total/NA	Solid	300.0	12924

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

HPLC/IC (Continued)

Analysis Batch: 12906 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-26	PS-60	Total/NA	Solid	300.0	12924
885-12151-27	PS-61	Total/NA	Solid	300.0	12924
885-12151-28	PS-62	Total/NA	Solid	300.0	12924
885-12151-29	PS-63	Total/NA	Solid	300.0	12924
885-12151-30	PS-64	Total/NA	Solid	300.0	12924
885-12151-31	PS-65	Total/NA	Solid	300.0	12924
885-12151-32	PS-66	Total/NA	Solid	300.0	12924
885-12151-35	PS-69	Total/NA	Solid	300.0	12924
885-12151-36	PS-70	Total/NA	Solid	300.0	12924
885-12151-37	PS-71	Total/NA	Solid	300.0	12924
885-12151-38	PS-72	Total/NA	Solid	300.0	12924
MB 885-12924/1-A	Method Blank	Total/NA	Solid	300.0	12924
LCS 885-12924/2-A	Lab Control Sample	Total/NA	Solid	300.0	12924
885-12151-21 MS	P2-IW14	Total/NA	Solid	300.0	12924
885-12151-21 MSD	P2-IW14	Total/NA	Solid	300.0	12924
885-12151-31 MS	PS-65	Total/NA	Solid	300.0	12924

Prep Batch: 12924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-21	P2-IW14	Total/NA	Solid	300_Prep	
885-12151-22	P2-IW15	Total/NA	Solid	300_Prep	
885-12151-23	P2-IW16	Total/NA	Solid	300_Prep	
885-12151-24	P2-IW17	Total/NA	Solid	300_Prep	
885-12151-25	P2-IW18	Total/NA	Solid	300_Prep	
885-12151-26	PS-60	Total/NA	Solid	300_Prep	
885-12151-27	PS-61	Total/NA	Solid	300_Prep	
885-12151-28	PS-62	Total/NA	Solid	300_Prep	
885-12151-29	PS-63	Total/NA	Solid	300_Prep	
885-12151-30	PS-64	Total/NA	Solid	300_Prep	
885-12151-31	PS-65	Total/NA	Solid	300_Prep	
885-12151-32	PS-66	Total/NA	Solid	300_Prep	
885-12151-33	PS-67	Total/NA	Solid	300_Prep	
885-12151-34	PS-68	Total/NA	Solid	300_Prep	
885-12151-35	PS-69	Total/NA	Solid	300_Prep	
885-12151-36	PS-70	Total/NA	Solid	300_Prep	
885-12151-37	PS-71	Total/NA	Solid	300_Prep	
885-12151-38	PS-72	Total/NA	Solid	300_Prep	
885-12151-39	P2-W28A	Total/NA	Solid	300_Prep	
885-12151-40	P2-IW6.6	Total/NA	Solid	300_Prep	
MB 885-12924/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12924/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-12151-21 MS	P2-IW14	Total/NA	Solid	300_Prep	
885-12151-21 MSD	P2-IW14	Total/NA	Solid	300_Prep	
885-12151-31 MS	PS-65	Total/NA	Solid	300_Prep	

Prep Batch: 12930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-1	PS-W31	Total/NA	Solid	300_Prep	
885-12151-2	P2-W32	Total/NA	Solid	300_Prep	
885-12151-3	P2-W33	Total/NA	Solid	300_Prep	
885-12151-4	P2-W34	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

HPLC/IC (Continued)

Prep Batch: 12930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-5	P2-W35	Total/NA	Solid	300_Prep	
885-12151-6	P2-W36	Total/NA	Solid	300_Prep	
885-12151-7	P2-IW1	Total/NA	Solid	300_Prep	
885-12151-8	P2-IW2	Total/NA	Solid	300_Prep	
885-12151-9	P2-IW2.2	Total/NA	Solid	300_Prep	
885-12151-10	P2-IW3	Total/NA	Solid	300_Prep	
885-12151-11	P2-IW4	Total/NA	Solid	300_Prep	
885-12151-12	P2-IW5	Total/NA	Solid	300_Prep	
885-12151-13	P2-IW6	Total/NA	Solid	300_Prep	
885-12151-14	P2-IW7	Total/NA	Solid	300_Prep	
885-12151-15	P2-IW8	Total/NA	Solid	300_Prep	
885-12151-16	P2-IW9	Total/NA	Solid	300_Prep	
885-12151-17	P2-IW10	Total/NA	Solid	300_Prep	
885-12151-18	P2-IW11	Total/NA	Solid	300_Prep	
885-12151-19	P2-IW12	Total/NA	Solid	300_Prep	
885-12151-20	P2-IW13	Total/NA	Solid	300_Prep	
MB 885-12930/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12930/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-12151-1 MS	PS-W31	Total/NA	Solid	300_Prep	
885-12151-1 MSD	PS-W31	Total/NA	Solid	300_Prep	
885-12151-11 MS	P2-IW4	Total/NA	Solid	300_Prep	
885-12151-11 MSD	P2-IW4	Total/NA	Solid	300_Prep	

Analysis Batch: 12981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-1	PS-W31	Total/NA	Solid	300.0	12930
885-12151-2	P2-W32	Total/NA	Solid	300.0	12930
885-12151-3	P2-W33	Total/NA	Solid	300.0	12930
885-12151-4	P2-W34	Total/NA	Solid	300.0	12930
885-12151-5	P2-W35	Total/NA	Solid	300.0	12930
885-12151-6	P2-W36	Total/NA	Solid	300.0	12930
885-12151-7	P2-IW1	Total/NA	Solid	300.0	12930
885-12151-8	P2-IW2	Total/NA	Solid	300.0	12930
885-12151-10	P2-IW3	Total/NA	Solid	300.0	12930
885-12151-11	P2-IW4	Total/NA	Solid	300.0	12930
885-12151-12	P2-IW5	Total/NA	Solid	300.0	12930
885-12151-13	P2-IW6	Total/NA	Solid	300.0	12930
885-12151-14	P2-IW7	Total/NA	Solid	300.0	12930
885-12151-15	P2-IW8	Total/NA	Solid	300.0	12930
885-12151-16	P2-IW9	Total/NA	Solid	300.0	12930
885-12151-18	P2-IW11	Total/NA	Solid	300.0	12930
885-12151-20	P2-IW13	Total/NA	Solid	300.0	12930
MB 885-12930/1-A	Method Blank	Total/NA	Solid	300.0	12930
LCS 885-12930/2-A	Lab Control Sample	Total/NA	Solid	300.0	12930
885-12151-1 MS	PS-W31	Total/NA	Solid	300.0	12930
885-12151-1 MSD	PS-W31	Total/NA	Solid	300.0	12930
885-12151-11 MS	P2-IW4	Total/NA	Solid	300.0	12930
885-12151-11 MSD	P2-IW4	Total/NA	Solid	300.0	12930

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

HPLC/IC

Analysis Batch: 13000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12151-9	P2-IW2.2	Total/NA	Solid	300.0	12930
885-12151-17	P2-IW10	Total/NA	Solid	300.0	12930
885-12151-19	P2-IW12	Total/NA	Solid	300.0	12930
885-12151-33	PS-67	Total/NA	Solid	300.0	12924
885-12151-34	PS-68	Total/NA	Solid	300.0	12924
885-12151-39	P2-W28A	Total/NA	Solid	300.0	12924
885-12151-40	P2-IW6.6	Total/NA	Solid	300.0	12924

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-W31
Date Collected: 09/17/24 09:20
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 16:01
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 16:01
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 14:02
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 21:57

Client Sample ID: P2-W32
Date Collected: 09/17/24 09:24
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 17:06
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 17:06
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 14:12
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 22:10

Client Sample ID: P2-W33
Date Collected: 09/17/24 09:26
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 18:11
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 18:11
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 14:23
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 23:14

Client Sample ID: P2-W34
Date Collected: 09/17/24 09:30
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 18:33

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-W34
Date Collected: 09/17/24 09:30
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 18:33
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 14:34
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 23:27

Client Sample ID: P2-W35
Date Collected: 09/17/24 09:34
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 18:55
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 18:55
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 14:44
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 23:40

Client Sample ID: P2-W36
Date Collected: 09/17/24 09:36
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 19:16
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 19:16
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 14:55
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/24/24 23:53

Client Sample ID: P2-IW1
Date Collected: 09/17/24 10:10
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 19:38
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 19:38

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW1
Date Collected: 09/17/24 10:10
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 15:06
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/25/24 00:06

Client Sample ID: P2-IW2
Date Collected: 09/17/24 10:20
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 19:59
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 19:59
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 15:17
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/25/24 00:18

Client Sample ID: P2-IW2.2
Date Collected: 09/17/24 10:24
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 20:21
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 20:21
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 15:38
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		50	13000	EH	EET ALB	09/25/24 17:09

Client Sample ID: P2-IW3
Date Collected: 09/17/24 10:26
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 20:43
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 20:43
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 15:49

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW3
Date Collected: 09/17/24 10:26
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/25/24 00:44

Client Sample ID: P2-IW4
Date Collected: 09/17/24 10:30
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 21:26
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 21:26
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 16:00
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/25/24 01:23

Client Sample ID: P2-IW5
Date Collected: 09/17/24 10:32
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 21:48
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 21:48
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 16:10
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/25/24 02:01

Client Sample ID: P2-IW6
Date Collected: 09/17/24 10:34
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 22:10
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 22:10
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 16:21
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/25/24 02:14

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW7
Date Collected: 09/17/24 10:46
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 22:32
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 22:32
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 16:32
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/25/24 02:27

Client Sample ID: P2-IW8
Date Collected: 09/17/24 10:48
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 23:15
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 23:15
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 16:43
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/25/24 02:40

Client Sample ID: P2-IW9
Date Collected: 09/17/24 10:50
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 23:37
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 23:37
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 16:54
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/25/24 02:53

Client Sample ID: P2-IW10
Date Collected: 09/17/24 11:20
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 17:25

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW10
Date Collected: 09/17/24 11:20
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 17:25
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 17:05
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		50	13000	EH	EET ALB	09/25/24 17:22

Client Sample ID: P2-IW11
Date Collected: 09/17/24 11:22
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8015M/D		1	12865	AT	EET ALB	09/23/24 23:58
Total/NA	Prep	5030C			12622	JP	EET ALB	09/20/24 10:24
Total/NA	Analysis	8021B		1	12867	AT	EET ALB	09/23/24 23:58
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:34
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 17:16
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/25/24 03:44

Client Sample ID: P2-IW12
Date Collected: 09/17/24 11:24
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 18:31
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 18:31
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:35
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 17:37
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		50	13000	EH	EET ALB	09/25/24 17:35

Client Sample ID: P2-IW13
Date Collected: 09/17/24 11:26
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 19:36
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 19:36

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW13
Date Collected: 09/17/24 11:26
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			12763	EM	EET ALB	09/23/24 10:35
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 17:48
Total/NA	Prep	300_Prep			12930	EH	EET ALB	09/24/24 16:18
Total/NA	Analysis	300.0		20	12981	EH	EET ALB	09/25/24 04:10

Client Sample ID: P2-IW14
Date Collected: 09/17/24 11:30
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 19:57
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 19:57
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 18:55
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 19:49

Client Sample ID: P2-IW15
Date Collected: 09/17/24 11:32
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 20:19
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 20:19
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 19:06
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 20:27

Client Sample ID: P2-IW16
Date Collected: 09/17/24 11:34
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 20:41
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 20:41
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 19:17

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW16
Date Collected: 09/17/24 11:34
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 20:40

Client Sample ID: P2-IW17
Date Collected: 09/17/24 11:40
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 21:03
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 21:03
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 19:28
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 20:53

Client Sample ID: P2-IW18
Date Collected: 09/17/24 11:42
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 21:24
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 21:24
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 19:40
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 21:06

Client Sample ID: PS-60
Date Collected: 09/17/24 14:00
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 21:46
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 21:46
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 19:51
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 21:45

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-61
Date Collected: 09/17/24 14:02
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 22:08
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 22:08
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 20:02
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 21:58

Client Sample ID: PS-62
Date Collected: 09/17/24 14:06
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 22:51
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 22:51
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 20:13
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 22:10

Client Sample ID: PS-63
Date Collected: 09/17/24 14:08
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 23:13
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 23:13
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 20:35
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 22:23

Client Sample ID: PS-64
Date Collected: 09/17/24 14:10
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 23:35

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-64
Date Collected: 09/17/24 14:10
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 23:35
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 20:46
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 22:36

Client Sample ID: PS-65
Date Collected: 09/17/24 14:12
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/24/24 23:56
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/24/24 23:56
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 20:57
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 22:49

Client Sample ID: PS-66
Date Collected: 09/17/24 14:14
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/25/24 00:18
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/25/24 00:18
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 21:08
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/24/24 23:28

Client Sample ID: PS-67
Date Collected: 09/17/24 14:16
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/25/24 00:40
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/25/24 00:40

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-67
Date Collected: 09/17/24 14:16
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 21:19
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		50	13000	EH	EET ALB	09/25/24 15:39

Client Sample ID: PS-68
Date Collected: 09/17/24 14:20
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/25/24 01:02
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/25/24 01:02
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 21:30
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		100	13000	EH	EET ALB	09/25/24 15:52

Client Sample ID: PS-69
Date Collected: 09/17/24 14:24
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/25/24 01:23
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/25/24 01:23
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 21:41
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/25/24 00:32

Client Sample ID: PS-70
Date Collected: 09/17/24 14:30
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/25/24 01:45
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/25/24 01:45
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 21:52

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: PS-70
Date Collected: 09/17/24 14:30
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/25/24 00:45

Client Sample ID: PS-71
Date Collected: 09/17/24 14:32
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8015M/D		1	12983	AT	EET ALB	09/25/24 02:07
Total/NA	Prep	5030C			12630	JR	EET ALB	09/20/24 11:17
Total/NA	Analysis	8021B		1	12984	AT	EET ALB	09/25/24 02:07
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 22:03
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/25/24 00:58

Client Sample ID: PS-72
Date Collected: 09/17/24 14:40
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12663	JR	EET ALB	09/20/24 14:22
Total/NA	Analysis	8015M/D		1	12849	JP	EET ALB	09/23/24 19:29
Total/NA	Prep	5030C			12663	JR	EET ALB	09/20/24 14:22
Total/NA	Analysis	8021B		1	12850	JP	EET ALB	09/23/24 19:29
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 22:14
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		20	12906	EH	EET ALB	09/25/24 01:11

Client Sample ID: P2-W28A
Date Collected: 09/17/24 14:44
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12663	JR	EET ALB	09/20/24 14:22
Total/NA	Analysis	8015M/D		1	12849	JP	EET ALB	09/23/24 20:40
Total/NA	Prep	5030C			12663	JR	EET ALB	09/20/24 14:22
Total/NA	Analysis	8021B		1	12850	JP	EET ALB	09/23/24 20:40
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 22:36
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		50	13000	EH	EET ALB	09/25/24 16:44

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-12151-1

Client Sample ID: P2-IW6.6

Date Collected: 09/17/24 10:40
Date Received: 09/19/24 07:50

Lab Sample ID: 885-12151-40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12663	JR	EET ALB	09/20/24 14:22
Total/NA	Analysis	8015M/D		1	12849	JP	EET ALB	09/23/24 21:51
Total/NA	Prep	5030C			12663	JR	EET ALB	09/20/24 14:22
Total/NA	Analysis	8021B		1	12850	JP	EET ALB	09/23/24 21:51
Total/NA	Prep	SHAKE			12773	EM	EET ALB	09/23/24 13:01
Total/NA	Analysis	8015M/D		1	12749	EM	EET ALB	09/23/24 22:47
Total/NA	Prep	300_Prep			12924	EH	EET ALB	09/24/24 15:58
Total/NA	Analysis	300.0		100	13000	EH	EET ALB	09/25/24 16:56

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-12151-1
Project/Site: Roy SWD#3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No chucks
# of Coolers: 1
Cooler Temp(including CF): 2.7 - 0.1 = 2.6 °C

HALL ENVIRONMENTAL ANALYSIS LABO
4901 Hawkins NE - Albuquerque, NM 87
Tel. 505-345-3975 Fax 505-345-4107

885-12151 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9/17/24	0920	SOIL	P2-W31	1x4oz Jar	ICE	1	X	X	X
	0924		P2-W32			2			
	0926		P2-W33			3			
	0930		P2-W34			4			
	0934		P2-[redacted]W35			5			
	0936		P2-W36			6			
	1010		P2-IW1			7			
	1020		P2-IW2			8			
	1024		P2-IW2.2			9			
	1026		P2-IW3			10			
	1030		P2-IW4			11			
	1032		P2-IW5			12			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/18/24	1015				9/18/24	1015
9/18/24	1900			courier	9/19/24	7:50

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No chucky

# of Coolers: 1

Cooler Temp(including CF): 2.7 - 0.1 = 2.6 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9/17/24	1034	SOIL	P2-IW6	1x4oz Jar	ICE	13	X	X	X
	1046		P2-IW7			14			
	1048		P2-IW8			15			
	1050		P2-IW9			16			
	1120		P2-IW10			17			
	1122		P2-IW11			18			
	1124		P2-IW12			19			
	1126		P2-IW13			20			
	1130		P2-IW14			21			
	1132		P2-IW15			22			
	1134		P2-IW16			23			
	1140		P2-IW17			24			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/18/24	1015				9/18/24	1015
9/18/24	1900				9/19/24	7:50

Remarks: Bill to EOG Artesia

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10/3/2024

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM
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Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 6 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez chixky

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(Including CF): 2.7-0.1=2.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9/17/24	1142	SOIL	P2-IW18	1x4oz Jar	ICE	25	X	X	X
	1400		PS-60			26			
	1402		PS-61			27			
	1406		PS-62			28			
	1408		PS-63			29			
	1410		PS-64			30			
	1412		PS-65			31			
	1414		PS-66			32			
	1416		PS-67			33			
	1420		PS-68			34			
	1421		PS-69			35			
	1430		PS-70			36			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/18/24	1015				9/18/24	1015
9/18/24	1900			courier	9/19/24	7:50

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Page 1076 of 2289

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No chucky

# of Coolers: 1

Cooler Temp(including CF): 2.7-0.1=2.6 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9/17/24	1432	SOIL	PS-71	1x4oz Jar	ICE	37	X	X	X
	1440		PS-72			38			
	1444		P2-W28A			39			
	1040		P2-IW6.6			40			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/18/24	1015				9/18/24	1015
9/18/24	1900			courier	9/19/24	7:50

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be ~~subcontracted to other accredited laboratories.~~ This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-12151-1

Login Number: 12151 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 10/11/2024 3:43:48 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-13234-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

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Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Released to Imaging: 9/3/2025 1:20:26 PM

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-13234-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-13234-1
Project/Site: Roy SWD #3

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-13234-1

Job ID: 885-13234-1 Eurofins Albuquerque

Job Narrative
885-13234-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/5/2024 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-13860 and analytical batch 885-13857 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: P-2W35A

Date Collected: 10/03/24 09:00
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/07/24 13:36	10/08/24 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*10/07/24 13:36*	*10/08/24 13:05*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/07/24 13:36	10/08/24 13:05	1
Ethylbenzene	ND		0.050		mg/Kg		10/07/24 13:36	10/08/24 13:05	1
Toluene	ND		0.050		mg/Kg		10/07/24 13:36	10/08/24 13:05	1
Xylenes, Total	ND		0.099		mg/Kg		10/07/24 13:36	10/08/24 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*48 - 145*	*10/07/24 13:36*	*10/08/24 13:05*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		10/08/24 08:58	10/08/24 13:23	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/08/24 08:58	10/08/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*10/08/24 08:58*	*10/08/24 13:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		10/08/24 10:30	10/08/24 12:04	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: P2-IW2.2A

Date Collected: 10/03/24 09:10
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/07/24 13:36	10/08/24 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*10/07/24 13:36*	*10/08/24 14:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/07/24 13:36	10/08/24 14:10	1
Ethylbenzene	ND		0.050		mg/Kg		10/07/24 13:36	10/08/24 14:10	1
Toluene	ND		0.050		mg/Kg		10/07/24 13:36	10/08/24 14:10	1
Xylenes, Total	ND		0.10		mg/Kg		10/07/24 13:36	10/08/24 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*48 - 145*	*10/07/24 13:36*	*10/08/24 14:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		10/08/24 08:58	10/08/24 13:36	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		10/08/24 08:58	10/08/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*10/08/24 08:58*	*10/08/24 13:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		60		mg/Kg		10/08/24 10:30	10/08/24 13:03	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: P2-IW6.6A

Date Collected: 10/03/24 09:12
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/07/24 13:36	10/08/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*10/07/24 13:36*	*10/08/24 15:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/07/24 13:36	10/08/24 15:15	1
Ethylbenzene	ND		0.049		mg/Kg		10/07/24 13:36	10/08/24 15:15	1
Toluene	ND		0.049		mg/Kg		10/07/24 13:36	10/08/24 15:15	1
Xylenes, Total	ND		0.099		mg/Kg		10/07/24 13:36	10/08/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*	*10/07/24 13:36*	*10/08/24 15:15*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		10/08/24 08:58	10/08/24 13:48	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/08/24 08:58	10/08/24 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*10/08/24 08:58*	*10/08/24 13:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7500**		300		mg/Kg		10/08/24 10:30	10/09/24 19:40	100

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: P2-IW8A

Date Collected: 10/03/24 09:14
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		10/07/24 13:36	10/08/24 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*10/07/24 13:36*	*10/08/24 15:36*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/07/24 13:36	10/08/24 15:36	1
Ethylbenzene	ND		0.048		mg/Kg		10/07/24 13:36	10/08/24 15:36	1
Toluene	ND		0.048		mg/Kg		10/07/24 13:36	10/08/24 15:36	1
Xylenes, Total	ND		0.097		mg/Kg		10/07/24 13:36	10/08/24 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*10/07/24 13:36*	*10/08/24 15:36*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		10/08/24 08:58	10/08/24 14:00	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		10/08/24 08:58	10/08/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*10/08/24 08:58*	*10/08/24 14:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2000**		60		mg/Kg		10/08/24 10:30	10/08/24 13:28	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: P2-IW10A

Date Collected: 10/03/24 09:16
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/07/24 13:36	10/08/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*10/07/24 13:36*	*10/08/24 15:58*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/07/24 13:36	10/08/24 15:58	1
Ethylbenzene	ND		0.050		mg/Kg		10/07/24 13:36	10/08/24 15:58	1
Toluene	ND		0.050		mg/Kg		10/07/24 13:36	10/08/24 15:58	1
Xylenes, Total	ND		0.099		mg/Kg		10/07/24 13:36	10/08/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*10/07/24 13:36*	*10/08/24 15:58*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		10/08/24 08:58	10/08/24 14:12	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		10/08/24 08:58	10/08/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*10/08/24 08:58*	*10/08/24 14:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7600**		300		mg/Kg		10/08/24 10:30	10/09/24 19:52	100

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: P2-IW11A

Date Collected: 10/03/24 09:20
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		10/07/24 13:36	10/08/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*10/07/24 13:36*	*10/08/24 16:20*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/07/24 13:36	10/08/24 16:20	1
Ethylbenzene	ND		0.048		mg/Kg		10/07/24 13:36	10/08/24 16:20	1
Toluene	ND		0.048		mg/Kg		10/07/24 13:36	10/08/24 16:20	1
Xylenes, Total	ND		0.095		mg/Kg		10/07/24 13:36	10/08/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*48 - 145*	*10/07/24 13:36*	*10/08/24 16:20*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		10/08/24 08:58	10/08/24 14:24	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		10/08/24 08:58	10/08/24 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*10/08/24 08:58*	*10/08/24 14:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**570**		60		mg/Kg		10/08/24 10:30	10/08/24 14:17	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: P2-IW12A

Date Collected: 10/03/24 09:30
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/07/24 13:36	10/08/24 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*10/07/24 13:36*	*10/08/24 16:42*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/07/24 13:36	10/08/24 16:42	1
Ethylbenzene	ND		0.050		mg/Kg		10/07/24 13:36	10/08/24 16:42	1
Toluene	ND		0.050		mg/Kg		10/07/24 13:36	10/08/24 16:42	1
Xylenes, Total	ND		0.10		mg/Kg		10/07/24 13:36	10/08/24 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*	*10/07/24 13:36*	*10/08/24 16:42*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		10/08/24 08:58	10/08/24 14:36	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/08/24 08:58	10/08/24 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*10/08/24 08:58*	*10/08/24 14:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7400**		300		mg/Kg		10/08/24 10:30	10/09/24 20:29	100

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: P2-IW17A

Date Collected: 10/03/24 09:40
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/07/24 13:36	10/08/24 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*35 - 166*	*10/07/24 13:36*	*10/08/24 17:03*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/07/24 13:36	10/08/24 17:03	1
Ethylbenzene	ND		0.049		mg/Kg		10/07/24 13:36	10/08/24 17:03	1
Toluene	ND		0.049		mg/Kg		10/07/24 13:36	10/08/24 17:03	1
Xylenes, Total	ND		0.097		mg/Kg		10/07/24 13:36	10/08/24 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*10/07/24 13:36*	*10/08/24 17:03*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		10/08/24 08:58	10/08/24 14:48	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		10/08/24 08:58	10/08/24 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*10/08/24 08:58*	*10/08/24 14:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7000**		300		mg/Kg		10/08/24 10:30	10/09/24 20:42	100

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: P-W28B

Date Collected: 10/03/24 10:10
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/07/24 13:36	10/08/24 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*35 - 166*	*10/07/24 13:36*	*10/08/24 17:25*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/07/24 13:36	10/08/24 17:25	1
Ethylbenzene	ND		0.050		mg/Kg		10/07/24 13:36	10/08/24 17:25	1
Toluene	ND		0.050		mg/Kg		10/07/24 13:36	10/08/24 17:25	1
Xylenes, Total	ND		0.10		mg/Kg		10/07/24 13:36	10/08/24 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*48 - 145*	*10/07/24 13:36*	*10/08/24 17:25*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		10/08/24 08:58	10/08/24 15:12	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		10/08/24 08:58	10/08/24 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*10/08/24 08:58*	*10/08/24 15:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1800**		60		mg/Kg		10/08/24 10:30	10/08/24 14:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: PS-67A

Date Collected: 10/03/24 10:12
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/07/24 13:36	10/08/24 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*10/07/24 13:36*	*10/08/24 17:47*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/07/24 13:36	10/08/24 17:47	1
Ethylbenzene	ND		0.049		mg/Kg		10/07/24 13:36	10/08/24 17:47	1
Toluene	ND		0.049		mg/Kg		10/07/24 13:36	10/08/24 17:47	1
Xylenes, Total	ND		0.099		mg/Kg		10/07/24 13:36	10/08/24 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*	*10/07/24 13:36*	*10/08/24 17:47*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		10/08/24 08:58	10/08/24 15:24	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		10/08/24 08:58	10/08/24 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*10/08/24 08:58*	*10/08/24 15:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60		mg/Kg		10/08/24 10:30	10/08/24 15:06	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: PS-68A

Date Collected: 10/03/24 10:14
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/08/24 13:35	10/11/24 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*10/08/24 13:35*	*10/11/24 02:31*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/08/24 13:35	10/11/24 02:31	1
Ethylbenzene	ND		0.050		mg/Kg		10/08/24 13:35	10/11/24 02:31	1
Toluene	ND		0.050		mg/Kg		10/08/24 13:35	10/11/24 02:31	1
Xylenes, Total	ND		0.10		mg/Kg		10/08/24 13:35	10/11/24 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*10/08/24 13:35*	*10/11/24 02:31*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		10/08/24 14:53	10/10/24 06:07	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		10/08/24 14:53	10/10/24 06:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*10/08/24 14:53*	*10/10/24 06:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		61		mg/Kg		10/08/24 16:13	10/09/24 15:45	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: PS-69A

Date Collected: 10/03/24 10:16
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-12

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/08/24 13:35	10/11/24 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*10/08/24 13:35*	*10/11/24 02:55*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/08/24 13:35	10/11/24 02:55	1
Ethylbenzene	ND		0.049		mg/Kg		10/08/24 13:35	10/11/24 02:55	1
Toluene	ND		0.049		mg/Kg		10/08/24 13:35	10/11/24 02:55	1
Xylenes, Total	ND		0.097		mg/Kg		10/08/24 13:35	10/11/24 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/08/24 13:35*	*10/11/24 02:55*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		10/08/24 14:53	10/10/24 06:19	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		10/08/24 14:53	10/10/24 06:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*10/08/24 14:53*	*10/10/24 06:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		10/08/24 16:13	10/09/24 15:58	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: PS-73

Date Collected: 10/03/24 10:22
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-13

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/08/24 13:35	10/11/24 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*10/08/24 13:35*	*10/11/24 03:18*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/08/24 13:35	10/11/24 03:18	1
Ethylbenzene	ND		0.050		mg/Kg		10/08/24 13:35	10/11/24 03:18	1
Toluene	ND		0.050		mg/Kg		10/08/24 13:35	10/11/24 03:18	1
Xylenes, Total	ND		0.10		mg/Kg		10/08/24 13:35	10/11/24 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/08/24 13:35*	*10/11/24 03:18*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		10/08/24 14:53	10/10/24 06:31	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		10/08/24 14:53	10/10/24 06:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*73*		*62 - 134*	*10/08/24 14:53*	*10/10/24 06:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		60		mg/Kg		10/08/24 16:13	10/09/24 16:10	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: PS-74

Date Collected: 10/03/24 10:24
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/08/24 13:35	10/11/24 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*10/08/24 13:35*	*10/11/24 03:42*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/08/24 13:35	10/11/24 03:42	1
Ethylbenzene	ND		0.049		mg/Kg		10/08/24 13:35	10/11/24 03:42	1
Toluene	ND		0.049		mg/Kg		10/08/24 13:35	10/11/24 03:42	1
Xylenes, Total	ND		0.097		mg/Kg		10/08/24 13:35	10/11/24 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*10/08/24 13:35*	*10/11/24 03:42*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		10/08/24 14:53	10/10/24 06:55	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		10/08/24 14:53	10/10/24 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*10/08/24 14:53*	*10/10/24 06:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		60		mg/Kg		10/08/24 16:13	10/09/24 16:22	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: PS-75

Date Collected: 10/03/24 10:28
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-15

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		10/08/24 13:35	10/11/24 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*10/08/24 13:35*	*10/11/24 04:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/08/24 13:35	10/11/24 04:06	1
Ethylbenzene	ND		0.048		mg/Kg		10/08/24 13:35	10/11/24 04:06	1
Toluene	ND		0.048		mg/Kg		10/08/24 13:35	10/11/24 04:06	1
Xylenes, Total	ND		0.096		mg/Kg		10/08/24 13:35	10/11/24 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*10/08/24 13:35*	*10/11/24 04:06*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		10/08/24 14:53	10/10/24 07:07	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/08/24 14:53	10/10/24 07:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*73*		*62 - 134*	*10/08/24 14:53*	*10/10/24 07:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		60		mg/Kg		10/08/24 16:13	10/09/24 16:35	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-13820/1-A
Matrix: Solid
Analysis Batch: 13926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13820

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/07/24 13:36	10/08/24 11:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*35 - 166*	*10/07/24 13:36*	*10/08/24 11:59*	*1*

Lab Sample ID: LCS 885-13820/2-A
Matrix: Solid
Analysis Batch: 13926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13820

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	28.1		mg/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*223*		*35 - 166*

Lab Sample ID: 885-13234-1 MS
Matrix: Solid
Analysis Batch: 13926

Client Sample ID: P-2W35A
Prep Type: Total/NA
Prep Batch: 13820

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.8	28.0		mg/Kg		113	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*237*		*35 - 166*

Lab Sample ID: 885-13234-1 MSD
Matrix: Solid
Analysis Batch: 13926

Client Sample ID: P-2W35A
Prep Type: Total/NA
Prep Batch: 13820

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	30.9		mg/Kg		124	70 - 130	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*249*		*35 - 166*

Lab Sample ID: MB 885-13900/1-A
Matrix: Solid
Analysis Batch: 14083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13900

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/08/24 13:35	10/10/24 22:37	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 885-13900/1-A
Matrix: Solid
Analysis Batch: 14083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13900

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		35 - 166	10/08/24 13:35	10/10/24 22:37	1

Lab Sample ID: LCS 885-13900/2-A
Matrix: Solid
Analysis Batch: 14083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13900

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	26.0		mg/Kg		104	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	219		35 - 166

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-13820/1-A
Matrix: Solid
Analysis Batch: 13928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13820

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/07/24 13:36	10/08/24 11:59	1
Ethylbenzene	ND		0.050		mg/Kg		10/07/24 13:36	10/08/24 11:59	1
Toluene	ND		0.050		mg/Kg		10/07/24 13:36	10/08/24 11:59	1
Xylenes, Total	ND		0.10		mg/Kg		10/07/24 13:36	10/08/24 11:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		48 - 145	10/07/24 13:36	10/08/24 11:59	1

Lab Sample ID: LCS 885-13820/3-A
Matrix: Solid
Analysis Batch: 13928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13820

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.956		mg/Kg		96	70 - 130		
Ethylbenzene			1.00	0.970		mg/Kg		97	70 - 130		
Toluene			1.00	0.957		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene			2.00	1.92		mg/Kg		96	70 - 130		
o-Xylene			1.00	0.953		mg/Kg		95	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		48 - 145

Lab Sample ID: 885-13234-2 MS
Matrix: Solid
Analysis Batch: 13928

Client Sample ID: P2-IW2.2A
Prep Type: Total/NA
Prep Batch: 13820

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		1.00	1.23		mg/Kg		123	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-13234-2 MS
Matrix: Solid
Analysis Batch: 13928

Client Sample ID: P2-IW2.2A
Prep Type: Total/NA
Prep Batch: 13820

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	ND		1.00	1.28		mg/Kg		128	70 - 130
Toluene	ND		1.00	1.24		mg/Kg		124	70 - 130
m-Xylene & p-Xylene	ND		2.00	2.53		mg/Kg		127	70 - 130
o-Xylene	ND		1.00	1.25		mg/Kg		125	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*

Lab Sample ID: 885-13234-2 MSD
Matrix: Solid
Analysis Batch: 13928

Client Sample ID: P2-IW2.2A
Prep Type: Total/NA
Prep Batch: 13820

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.994	1.21		mg/Kg		122	70 - 130	1	20
Ethylbenzene	ND		0.994	1.27		mg/Kg		128	70 - 130	0	20
Toluene	ND		0.994	1.24		mg/Kg		125	70 - 130	0	20
m-Xylene & p-Xylene	ND		1.99	2.51		mg/Kg		126	70 - 130	1	20
o-Xylene	ND		0.994	1.25		mg/Kg		125	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*

Lab Sample ID: MB 885-13900/1-A
Matrix: Solid
Analysis Batch: 14084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13900

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/08/24 13:35	10/10/24 22:37	1
Ethylbenzene	ND		0.050		mg/Kg		10/08/24 13:35	10/10/24 22:37	1
Toluene	ND		0.050		mg/Kg		10/08/24 13:35	10/10/24 22:37	1
Xylenes, Total	ND		0.10		mg/Kg		10/08/24 13:35	10/10/24 22:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*10/08/24 13:35*	*10/10/24 22:37*	*1*

Lab Sample ID: LCS 885-13900/3-A
Matrix: Solid
Analysis Batch: 14084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13900

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.943		mg/Kg		94	70 - 130
Ethylbenzene	1.00	0.962		mg/Kg		96	70 - 130
Toluene	1.00	0.925		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	2.00	1.92		mg/Kg		96	70 - 130
o-Xylene	1.00	0.954		mg/Kg		95	70 - 130

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-13900/3-A
Matrix: Solid
Analysis Batch: 14084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13900

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-13860/1-A
Matrix: Solid
Analysis Batch: 13857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13860

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		10/08/24 08:58	10/08/24 13:00	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/08/24 08:58	10/08/24 13:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*10/08/24 08:58*	*10/08/24 13:00*	*1*

Lab Sample ID: LCS 885-13860/2-A
Matrix: Solid
Analysis Batch: 13857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13860

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	51.2		mg/Kg		102	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*

Lab Sample ID: MB 885-13911/1-A
Matrix: Solid
Analysis Batch: 13950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13911

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		10/08/24 14:53	10/10/24 04:42	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/08/24 14:53	10/10/24 04:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*10/08/24 14:53*	*10/10/24 04:42*	*1*

Lab Sample ID: LCS 885-13911/2-A
Matrix: Solid
Analysis Batch: 13950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13911

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	40.2		mg/Kg		80	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-13881/1-A
Matrix: Solid
Analysis Batch: 13951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13881

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		10/08/24 10:30	10/08/24 12:26	1

Lab Sample ID: LCS 885-13881/2-A
Matrix: Solid
Analysis Batch: 13951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13881

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.5		mg/Kg		95	90 - 110		

Lab Sample ID: 885-13234-1 MS
Matrix: Solid
Analysis Batch: 13951

Client Sample ID: P-2W35A
Prep Type: Total/NA
Prep Batch: 13881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	160		30.1	189	4	mg/Kg		95	50 - 150		

Lab Sample ID: MB 885-13916/1-A
Matrix: Solid
Analysis Batch: 13985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13916

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		10/08/24 16:13	10/09/24 10:35	1

Lab Sample ID: LCS 885-13916/2-A
Matrix: Solid
Analysis Batch: 13985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13916

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.2		mg/Kg		97	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

GC VOA

Prep Batch: 13820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-1	P-2W35A	Total/NA	Solid	5030C	
885-13234-2	P2-IW2.2A	Total/NA	Solid	5030C	
885-13234-3	P2-IW6.6A	Total/NA	Solid	5030C	
885-13234-4	P2-IW8A	Total/NA	Solid	5030C	
885-13234-5	P2-IW10A	Total/NA	Solid	5030C	
885-13234-6	P2-IW11A	Total/NA	Solid	5030C	
885-13234-7	P2-IW12A	Total/NA	Solid	5030C	
885-13234-8	P2-IW17A	Total/NA	Solid	5030C	
885-13234-9	P-W28B	Total/NA	Solid	5030C	
885-13234-10	PS-67A	Total/NA	Solid	5030C	
MB 885-13820/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-13820/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-13820/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-13234-1 MS	P-2W35A	Total/NA	Solid	5030C	
885-13234-1 MSD	P-2W35A	Total/NA	Solid	5030C	
885-13234-2 MS	P2-IW2.2A	Total/NA	Solid	5030C	
885-13234-2 MSD	P2-IW2.2A	Total/NA	Solid	5030C	

Prep Batch: 13900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-11	PS-68A	Total/NA	Solid	5030C	
885-13234-12	PS-69A	Total/NA	Solid	5030C	
885-13234-13	PS-73	Total/NA	Solid	5030C	
885-13234-14	PS-74	Total/NA	Solid	5030C	
885-13234-15	PS-75	Total/NA	Solid	5030C	
MB 885-13900/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-13900/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-13900/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 13926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-1	P-2W35A	Total/NA	Solid	8015M/D	13820
885-13234-2	P2-IW2.2A	Total/NA	Solid	8015M/D	13820
885-13234-3	P2-IW6.6A	Total/NA	Solid	8015M/D	13820
885-13234-4	P2-IW8A	Total/NA	Solid	8015M/D	13820
885-13234-5	P2-IW10A	Total/NA	Solid	8015M/D	13820
885-13234-6	P2-IW11A	Total/NA	Solid	8015M/D	13820
885-13234-7	P2-IW12A	Total/NA	Solid	8015M/D	13820
885-13234-8	P2-IW17A	Total/NA	Solid	8015M/D	13820
885-13234-9	P-W28B	Total/NA	Solid	8015M/D	13820
885-13234-10	PS-67A	Total/NA	Solid	8015M/D	13820
MB 885-13820/1-A	Method Blank	Total/NA	Solid	8015M/D	13820
LCS 885-13820/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	13820
885-13234-1 MS	P-2W35A	Total/NA	Solid	8015M/D	13820
885-13234-1 MSD	P-2W35A	Total/NA	Solid	8015M/D	13820

Analysis Batch: 13928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-1	P-2W35A	Total/NA	Solid	8021B	13820
885-13234-2	P2-IW2.2A	Total/NA	Solid	8021B	13820
885-13234-3	P2-IW6.6A	Total/NA	Solid	8021B	13820

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

GC VOA (Continued)

Analysis Batch: 13928 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-4	P2-IW8A	Total/NA	Solid	8021B	13820
885-13234-5	P2-IW10A	Total/NA	Solid	8021B	13820
885-13234-6	P2-IW11A	Total/NA	Solid	8021B	13820
885-13234-7	P2-IW12A	Total/NA	Solid	8021B	13820
885-13234-8	P2-IW17A	Total/NA	Solid	8021B	13820
885-13234-9	P-W28B	Total/NA	Solid	8021B	13820
885-13234-10	PS-67A	Total/NA	Solid	8021B	13820
MB 885-13820/1-A	Method Blank	Total/NA	Solid	8021B	13820
LCS 885-13820/3-A	Lab Control Sample	Total/NA	Solid	8021B	13820
885-13234-2 MS	P2-IW2.2A	Total/NA	Solid	8021B	13820
885-13234-2 MSD	P2-IW2.2A	Total/NA	Solid	8021B	13820

Analysis Batch: 14083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-11	PS-68A	Total/NA	Solid	8015M/D	13900
885-13234-12	PS-69A	Total/NA	Solid	8015M/D	13900
885-13234-13	PS-73	Total/NA	Solid	8015M/D	13900
885-13234-14	PS-74	Total/NA	Solid	8015M/D	13900
885-13234-15	PS-75	Total/NA	Solid	8015M/D	13900
MB 885-13900/1-A	Method Blank	Total/NA	Solid	8015M/D	13900
LCS 885-13900/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	13900

Analysis Batch: 14084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-11	PS-68A	Total/NA	Solid	8021B	13900
885-13234-12	PS-69A	Total/NA	Solid	8021B	13900
885-13234-13	PS-73	Total/NA	Solid	8021B	13900
885-13234-14	PS-74	Total/NA	Solid	8021B	13900
885-13234-15	PS-75	Total/NA	Solid	8021B	13900
MB 885-13900/1-A	Method Blank	Total/NA	Solid	8021B	13900
LCS 885-13900/3-A	Lab Control Sample	Total/NA	Solid	8021B	13900

GC Semi VOA

Analysis Batch: 13857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-1	P-2W35A	Total/NA	Solid	8015M/D	13860
885-13234-2	P2-IW2.2A	Total/NA	Solid	8015M/D	13860
885-13234-3	P2-IW6.6A	Total/NA	Solid	8015M/D	13860
885-13234-4	P2-IW8A	Total/NA	Solid	8015M/D	13860
885-13234-5	P2-IW10A	Total/NA	Solid	8015M/D	13860
885-13234-6	P2-IW11A	Total/NA	Solid	8015M/D	13860
885-13234-7	P2-IW12A	Total/NA	Solid	8015M/D	13860
885-13234-8	P2-IW17A	Total/NA	Solid	8015M/D	13860
885-13234-9	P-W28B	Total/NA	Solid	8015M/D	13860
885-13234-10	PS-67A	Total/NA	Solid	8015M/D	13860
MB 885-13860/1-A	Method Blank	Total/NA	Solid	8015M/D	13860
LCS 885-13860/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	13860

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

GC Semi VOA

Prep Batch: 13860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-1	P-2W35A	Total/NA	Solid	SHAKE	
885-13234-2	P2-IW2.2A	Total/NA	Solid	SHAKE	
885-13234-3	P2-IW6.6A	Total/NA	Solid	SHAKE	
885-13234-4	P2-IW8A	Total/NA	Solid	SHAKE	
885-13234-5	P2-IW10A	Total/NA	Solid	SHAKE	
885-13234-6	P2-IW11A	Total/NA	Solid	SHAKE	
885-13234-7	P2-IW12A	Total/NA	Solid	SHAKE	
885-13234-8	P2-IW17A	Total/NA	Solid	SHAKE	
885-13234-9	P-W28B	Total/NA	Solid	SHAKE	
885-13234-10	PS-67A	Total/NA	Solid	SHAKE	
MB 885-13860/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-13860/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 13911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-11	PS-68A	Total/NA	Solid	SHAKE	
885-13234-12	PS-69A	Total/NA	Solid	SHAKE	
885-13234-13	PS-73	Total/NA	Solid	SHAKE	
885-13234-14	PS-74	Total/NA	Solid	SHAKE	
885-13234-15	PS-75	Total/NA	Solid	SHAKE	
MB 885-13911/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-13911/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 13950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-11	PS-68A	Total/NA	Solid	8015M/D	13911
885-13234-12	PS-69A	Total/NA	Solid	8015M/D	13911
885-13234-13	PS-73	Total/NA	Solid	8015M/D	13911
885-13234-14	PS-74	Total/NA	Solid	8015M/D	13911
885-13234-15	PS-75	Total/NA	Solid	8015M/D	13911
MB 885-13911/1-A	Method Blank	Total/NA	Solid	8015M/D	13911
LCS 885-13911/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	13911

HPLC/IC

Prep Batch: 13881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-1	P-2W35A	Total/NA	Solid	300_Prep	
885-13234-2	P2-IW2.2A	Total/NA	Solid	300_Prep	
885-13234-3	P2-IW6.6A	Total/NA	Solid	300_Prep	
885-13234-4	P2-IW8A	Total/NA	Solid	300_Prep	
885-13234-5	P2-IW10A	Total/NA	Solid	300_Prep	
885-13234-6	P2-IW11A	Total/NA	Solid	300_Prep	
885-13234-7	P2-IW12A	Total/NA	Solid	300_Prep	
885-13234-8	P2-IW17A	Total/NA	Solid	300_Prep	
885-13234-9	P-W28B	Total/NA	Solid	300_Prep	
885-13234-10	PS-67A	Total/NA	Solid	300_Prep	
MB 885-13881/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-13881/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-13234-1 MS	P-2W35A	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

HPLC/IC

Prep Batch: 13916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-11	PS-68A	Total/NA	Solid	300_Prep	
885-13234-12	PS-69A	Total/NA	Solid	300_Prep	
885-13234-13	PS-73	Total/NA	Solid	300_Prep	
885-13234-14	PS-74	Total/NA	Solid	300_Prep	
885-13234-15	PS-75	Total/NA	Solid	300_Prep	
MB 885-13916/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-13916/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 13951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-1	P-2W35A	Total/NA	Solid	300.0	13881
885-13234-2	P2-IW2.2A	Total/NA	Solid	300.0	13881
885-13234-4	P2-IW8A	Total/NA	Solid	300.0	13881
885-13234-6	P2-IW11A	Total/NA	Solid	300.0	13881
885-13234-9	P-W28B	Total/NA	Solid	300.0	13881
885-13234-10	PS-67A	Total/NA	Solid	300.0	13881
MB 885-13881/1-A	Method Blank	Total/NA	Solid	300.0	13881
LCS 885-13881/2-A	Lab Control Sample	Total/NA	Solid	300.0	13881
885-13234-1 MS	P-2W35A	Total/NA	Solid	300.0	13881

Analysis Batch: 13985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13234-3	P2-IW6.6A	Total/NA	Solid	300.0	13881
885-13234-5	P2-IW10A	Total/NA	Solid	300.0	13881
885-13234-7	P2-IW12A	Total/NA	Solid	300.0	13881
885-13234-8	P2-IW17A	Total/NA	Solid	300.0	13881
885-13234-11	PS-68A	Total/NA	Solid	300.0	13916
885-13234-12	PS-69A	Total/NA	Solid	300.0	13916
885-13234-13	PS-73	Total/NA	Solid	300.0	13916
885-13234-14	PS-74	Total/NA	Solid	300.0	13916
885-13234-15	PS-75	Total/NA	Solid	300.0	13916
MB 885-13916/1-A	Method Blank	Total/NA	Solid	300.0	13916
LCS 885-13916/2-A	Lab Control Sample	Total/NA	Solid	300.0	13916

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: P-2W35A — Lab Sample ID: 885-13234-1

Date Collected: 10/03/24 09:00 — **Matrix: Solid**
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8015M/D		1	13926	AT	EET ALB	10/08/24 13:05
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8021B		1	13928	AT	EET ALB	10/08/24 13:05
Total/NA	Prep	SHAKE			13860	EM	EET ALB	10/08/24 08:58
Total/NA	Analysis	8015M/D		1	13857	EM	EET ALB	10/08/24 13:23
Total/NA	Prep	300_Prep			13881	EH	EET ALB	10/08/24 10:30
Total/NA	Analysis	300.0		20	13951	RC	EET ALB	10/08/24 12:04

Client Sample ID: P2-IW2.2A — Lab Sample ID: 885-13234-2

Date Collected: 10/03/24 09:10 — **Matrix: Solid**
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8015M/D		1	13926	AT	EET ALB	10/08/24 14:10
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8021B		1	13928	AT	EET ALB	10/08/24 14:10
Total/NA	Prep	SHAKE			13860	EM	EET ALB	10/08/24 08:58
Total/NA	Analysis	8015M/D		1	13857	EM	EET ALB	10/08/24 13:36
Total/NA	Prep	300_Prep			13881	EH	EET ALB	10/08/24 10:30
Total/NA	Analysis	300.0		20	13951	RC	EET ALB	10/08/24 13:03

Client Sample ID: P2-IW6.6A — Lab Sample ID: 885-13234-3

Date Collected: 10/03/24 09:12 — **Matrix: Solid**
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8015M/D		1	13926	AT	EET ALB	10/08/24 15:15
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8021B		1	13928	AT	EET ALB	10/08/24 15:15
Total/NA	Prep	SHAKE			13860	EM	EET ALB	10/08/24 08:58
Total/NA	Analysis	8015M/D		1	13857	EM	EET ALB	10/08/24 13:48
Total/NA	Prep	300_Prep			13881	EH	EET ALB	10/08/24 10:30
Total/NA	Analysis	300.0		100	13985	EH	EET ALB	10/09/24 19:40

Client Sample ID: P2-IW8A — Lab Sample ID: 885-13234-4

Date Collected: 10/03/24 09:14 — **Matrix: Solid**
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8015M/D		1	13926	AT	EET ALB	10/08/24 15:36

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: P2-IW8A

Lab Sample ID: 885-13234-4
Matrix: Solid
Date Collected: 10/03/24 09:14
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8021B		1	13928	AT	EET ALB	10/08/24 15:36
Total/NA	Prep	SHAKE			13860	EM	EET ALB	10/08/24 08:58
Total/NA	Analysis	8015M/D		1	13857	EM	EET ALB	10/08/24 14:00
Total/NA	Prep	300_Prep			13881	EH	EET ALB	10/08/24 10:30
Total/NA	Analysis	300.0		20	13951	RC	EET ALB	10/08/24 13:28

Client Sample ID: P2-IW10A

Lab Sample ID: 885-13234-5
Matrix: Solid
Date Collected: 10/03/24 09:16
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8015M/D		1	13926	AT	EET ALB	10/08/24 15:58
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8021B		1	13928	AT	EET ALB	10/08/24 15:58
Total/NA	Prep	SHAKE			13860	EM	EET ALB	10/08/24 08:58
Total/NA	Analysis	8015M/D		1	13857	EM	EET ALB	10/08/24 14:12
Total/NA	Prep	300_Prep			13881	EH	EET ALB	10/08/24 10:30
Total/NA	Analysis	300.0		100	13985	EH	EET ALB	10/09/24 19:52

Client Sample ID: P2-IW11A

Lab Sample ID: 885-13234-6
Matrix: Solid
Date Collected: 10/03/24 09:20
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8015M/D		1	13926	AT	EET ALB	10/08/24 16:20
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8021B		1	13928	AT	EET ALB	10/08/24 16:20
Total/NA	Prep	SHAKE			13860	EM	EET ALB	10/08/24 08:58
Total/NA	Analysis	8015M/D		1	13857	EM	EET ALB	10/08/24 14:24
Total/NA	Prep	300_Prep			13881	EH	EET ALB	10/08/24 10:30
Total/NA	Analysis	300.0		20	13951	RC	EET ALB	10/08/24 14:17

Client Sample ID: P2-IW12A

Lab Sample ID: 885-13234-7
Matrix: Solid
Date Collected: 10/03/24 09:30
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8015M/D		1	13926	AT	EET ALB	10/08/24 16:42
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8021B		1	13928	AT	EET ALB	10/08/24 16:42

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: P2-IW12A

Lab Sample ID: 885-13234-7

Date Collected: 10/03/24 09:30
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			13860	EM	EET ALB	10/08/24 08:58
Total/NA	Analysis	8015M/D		1	13857	EM	EET ALB	10/08/24 14:36
Total/NA	Prep	300_Prep			13881	EH	EET ALB	10/08/24 10:30
Total/NA	Analysis	300.0		100	13985	EH	EET ALB	10/09/24 20:29

Client Sample ID: P2-IW17A

Lab Sample ID: 885-13234-8

Date Collected: 10/03/24 09:40
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8015M/D		1	13926	AT	EET ALB	10/08/24 17:03
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8021B		1	13928	AT	EET ALB	10/08/24 17:03
Total/NA	Prep	SHAKE			13860	EM	EET ALB	10/08/24 08:58
Total/NA	Analysis	8015M/D		1	13857	EM	EET ALB	10/08/24 14:48
Total/NA	Prep	300_Prep			13881	EH	EET ALB	10/08/24 10:30
Total/NA	Analysis	300.0		100	13985	EH	EET ALB	10/09/24 20:42

Client Sample ID: P-W28B

Lab Sample ID: 885-13234-9

Date Collected: 10/03/24 10:10
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8015M/D		1	13926	AT	EET ALB	10/08/24 17:25
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8021B		1	13928	AT	EET ALB	10/08/24 17:25
Total/NA	Prep	SHAKE			13860	EM	EET ALB	10/08/24 08:58
Total/NA	Analysis	8015M/D		1	13857	EM	EET ALB	10/08/24 15:12
Total/NA	Prep	300_Prep			13881	EH	EET ALB	10/08/24 10:30
Total/NA	Analysis	300.0		20	13951	RC	EET ALB	10/08/24 14:54

Client Sample ID: PS-67A

Lab Sample ID: 885-13234-10

Date Collected: 10/03/24 10:12
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8015M/D		1	13926	AT	EET ALB	10/08/24 17:47
Total/NA	Prep	5030C			13820	AT	EET ALB	10/07/24 13:36
Total/NA	Analysis	8021B		1	13928	AT	EET ALB	10/08/24 17:47
Total/NA	Prep	SHAKE			13860	EM	EET ALB	10/08/24 08:58
Total/NA	Analysis	8015M/D		1	13857	EM	EET ALB	10/08/24 15:24

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: PS-67A
Date Collected: 10/03/24 10:12
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			13881	EH	EET ALB	10/08/24 10:30
Total/NA	Analysis	300.0		20	13951	RC	EET ALB	10/08/24 15:06

Client Sample ID: PS-68A
Date Collected: 10/03/24 10:14
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13900	AT	EET ALB	10/08/24 13:35
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/11/24 02:31
Total/NA	Prep	5030C			13900	AT	EET ALB	10/08/24 13:35
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/11/24 02:31
Total/NA	Prep	SHAKE			13911	EM	EET ALB	10/08/24 14:53
Total/NA	Analysis	8015M/D		1	13950	EM	EET ALB	10/10/24 06:07
Total/NA	Prep	300_Prep			13916	EH	EET ALB	10/08/24 16:13
Total/NA	Analysis	300.0		20	13985	EH	EET ALB	10/09/24 15:45

Client Sample ID: PS-69A
Date Collected: 10/03/24 10:16
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13900	AT	EET ALB	10/08/24 13:35
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/11/24 02:55
Total/NA	Prep	5030C			13900	AT	EET ALB	10/08/24 13:35
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/11/24 02:55
Total/NA	Prep	SHAKE			13911	EM	EET ALB	10/08/24 14:53
Total/NA	Analysis	8015M/D		1	13950	EM	EET ALB	10/10/24 06:19
Total/NA	Prep	300_Prep			13916	EH	EET ALB	10/08/24 16:13
Total/NA	Analysis	300.0		20	13985	EH	EET ALB	10/09/24 15:58

Client Sample ID: PS-73
Date Collected: 10/03/24 10:22
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13234-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13900	AT	EET ALB	10/08/24 13:35
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/11/24 03:18
Total/NA	Prep	5030C			13900	AT	EET ALB	10/08/24 13:35
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/11/24 03:18
Total/NA	Prep	SHAKE			13911	EM	EET ALB	10/08/24 14:53
Total/NA	Analysis	8015M/D		1	13950	EM	EET ALB	10/10/24 06:31
Total/NA	Prep	300_Prep			13916	EH	EET ALB	10/08/24 16:13
Total/NA	Analysis	300.0		20	13985	EH	EET ALB	10/09/24 16:10

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13234-1

Client Sample ID: PS-74

Lab Sample ID: 885-13234-14

Date Collected: 10/03/24 10:24
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13900	AT	EET ALB	10/08/24 13:35
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/11/24 03:42
Total/NA	Prep	5030C			13900	AT	EET ALB	10/08/24 13:35
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/11/24 03:42
Total/NA	Prep	SHAKE			13911	EM	EET ALB	10/08/24 14:53
Total/NA	Analysis	8015M/D		1	13950	EM	EET ALB	10/10/24 06:55
Total/NA	Prep	300_Prep			13916	EH	EET ALB	10/08/24 16:13
Total/NA	Analysis	300.0		20	13985	EH	EET ALB	10/09/24 16:22

Client Sample ID: PS-75

Lab Sample ID: 885-13234-15

Date Collected: 10/03/24 10:28
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13900	AT	EET ALB	10/08/24 13:35
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/11/24 04:06
Total/NA	Prep	5030C			13900	AT	EET ALB	10/08/24 13:35
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/11/24 04:06
Total/NA	Prep	SHAKE			13911	EM	EET ALB	10/08/24 14:53
Total/NA	Analysis	8015M/D		1	13950	EM	EET ALB	10/10/24 07:07
Total/NA	Prep	300_Prep			13916	EH	EET ALB	10/08/24 16:13
Total/NA	Analysis	300.0		20	13985	EH	EET ALB	10/09/24 16:35

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-13234-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-13234-1

Login Number: 13234 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 10/22/2024 9:33:13 AM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-13655-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
10/22/2024 9:33:13 AM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-13655-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-13655-1
Project/Site: Roy SWD #3

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-13655-1

Job ID: 885-13655-1 Eurofins Albuquerque

Job Narrative
885-13655-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/12/2024 7:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-14195 recovered above the upper control limit for Diesel Range Organics [C10-C28]. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: PS-76 (885-13655-1), PS-77 (885-13655-2), PS-78 (885-13655-3), PS-79 (885-13655-4), PS-80 (885-13655-5), PS-81 (885-13655-6), PS-82 (885-13655-7), PS-83 (885-13655-8), PS-84 (885-13655-9) and PS-85 (885-13655-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-76

Date Collected: 10/08/24 09:30
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/14/24 11:35	10/15/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*10/14/24 11:35*	*10/15/24 16:02*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/14/24 11:35	10/15/24 16:02	1
Ethylbenzene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 16:02	1
Toluene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 16:02	1
Xylenes, Total	ND		0.10		mg/Kg		10/14/24 11:35	10/15/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*10/14/24 11:35*	*10/15/24 16:02*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		10/14/24 12:31	10/14/24 17:37	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		10/14/24 12:31	10/14/24 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*76*		*62 - 134*	*10/14/24 12:31*	*10/14/24 17:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		60		mg/Kg		10/14/24 16:23	10/15/24 20:40	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-77

Date Collected: 10/08/24 09:34
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/14/24 11:35	10/15/24 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*10/14/24 11:35*	*10/15/24 17:08*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/14/24 11:35	10/15/24 17:08	1
Ethylbenzene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 17:08	1
Toluene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 17:08	1
Xylenes, Total	ND		0.10		mg/Kg		10/14/24 11:35	10/15/24 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/14/24 11:35*	*10/15/24 17:08*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6		mg/Kg		10/14/24 12:31	10/14/24 17:48	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		10/14/24 12:31	10/14/24 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*10/14/24 12:31*	*10/14/24 17:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		60		mg/Kg		10/14/24 16:23	10/15/24 21:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-78

Date Collected: 10/08/24 09:40
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/14/24 11:35	10/15/24 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*10/14/24 11:35*	*10/15/24 18:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/14/24 11:35	10/15/24 18:13	1
Ethylbenzene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 18:13	1
Toluene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 18:13	1
Xylenes, Total	ND		0.10		mg/Kg		10/14/24 11:35	10/15/24 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/14/24 11:35*	*10/15/24 18:13*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		10/14/24 12:31	10/14/24 17:59	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		10/14/24 12:31	10/14/24 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*10/14/24 12:31*	*10/14/24 17:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		10/14/24 16:23	10/15/24 21:24	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-79

Date Collected: 10/08/24 09:42
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/14/24 11:35	10/15/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*10/14/24 11:35*	*10/15/24 18:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/14/24 11:35	10/15/24 18:34	1
Ethylbenzene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 18:34	1
Toluene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 18:34	1
Xylenes, Total	ND		0.10		mg/Kg		10/14/24 11:35	10/15/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/14/24 11:35*	*10/15/24 18:34*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		10/14/24 12:31	10/14/24 18:10	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		10/14/24 12:31	10/14/24 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*10/14/24 12:31*	*10/14/24 18:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		60		mg/Kg		10/14/24 16:23	10/15/24 21:35	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-80

Date Collected: 10/08/24 09:46
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/14/24 11:35	10/15/24 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*35 - 166*	*10/14/24 11:35*	*10/15/24 18:56*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/14/24 11:35	10/15/24 18:56	1
Ethylbenzene	ND		0.049		mg/Kg		10/14/24 11:35	10/15/24 18:56	1
Toluene	ND		0.049		mg/Kg		10/14/24 11:35	10/15/24 18:56	1
Xylenes, Total	ND		0.098		mg/Kg		10/14/24 11:35	10/15/24 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/14/24 11:35*	*10/15/24 18:56*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8		mg/Kg		10/14/24 12:31	10/14/24 18:21	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		10/14/24 12:31	10/14/24 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*62 - 134*	*10/14/24 12:31*	*10/14/24 18:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		60		mg/Kg		10/14/24 16:23	10/15/24 21:46	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-81

Date Collected: 10/08/24 09:50
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/14/24 11:35	10/15/24 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*35 - 166*	*10/14/24 11:35*	*10/15/24 19:18*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/14/24 11:35	10/15/24 19:18	1
Ethylbenzene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 19:18	1
Toluene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 19:18	1
Xylenes, Total	ND		0.10		mg/Kg		10/14/24 11:35	10/15/24 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*10/14/24 11:35*	*10/15/24 19:18*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		10/14/24 12:31	10/14/24 18:32	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/14/24 12:31	10/14/24 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*71*		*62 - 134*	*10/14/24 12:31*	*10/14/24 18:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		60		mg/Kg		10/14/24 17:07	10/15/24 15:06	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-82

Date Collected: 10/08/24 09:52
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/14/24 11:35	10/15/24 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*35 - 166*	*10/14/24 11:35*	*10/15/24 19:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/14/24 11:35	10/15/24 19:39	1
Ethylbenzene	ND		0.049		mg/Kg		10/14/24 11:35	10/15/24 19:39	1
Toluene	ND		0.049		mg/Kg		10/14/24 11:35	10/15/24 19:39	1
Xylenes, Total	ND		0.097		mg/Kg		10/14/24 11:35	10/15/24 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*10/14/24 11:35*	*10/15/24 19:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7		mg/Kg		10/14/24 12:31	10/14/24 18:43	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		10/14/24 12:31	10/14/24 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*10/14/24 12:31*	*10/14/24 18:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		60		mg/Kg		10/14/24 17:07	10/15/24 15:19	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-83

Date Collected: 10/08/24 09:58
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/14/24 11:35	10/15/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*35 - 166*	*10/14/24 11:35*	*10/15/24 20:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/14/24 11:35	10/15/24 20:01	1
Ethylbenzene	ND		0.049		mg/Kg		10/14/24 11:35	10/15/24 20:01	1
Toluene	ND		0.049		mg/Kg		10/14/24 11:35	10/15/24 20:01	1
Xylenes, Total	ND		0.098		mg/Kg		10/14/24 11:35	10/15/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*10/14/24 11:35*	*10/15/24 20:01*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		10/14/24 12:31	10/14/24 18:55	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/14/24 12:31	10/14/24 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*10/14/24 12:31*	*10/14/24 18:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		10/14/24 17:07	10/15/24 15:32	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-84

Date Collected: 10/08/24 10:00
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		10/14/24 11:35	10/15/24 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*10/14/24 11:35*	*10/15/24 20:23*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/14/24 11:35	10/15/24 20:23	1
Ethylbenzene	ND		0.047		mg/Kg		10/14/24 11:35	10/15/24 20:23	1
Toluene	ND		0.047		mg/Kg		10/14/24 11:35	10/15/24 20:23	1
Xylenes, Total	ND		0.094		mg/Kg		10/14/24 11:35	10/15/24 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*10/14/24 11:35*	*10/15/24 20:23*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6		mg/Kg		10/14/24 12:31	10/14/24 19:06	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		10/14/24 12:31	10/14/24 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*10/14/24 12:31*	*10/14/24 19:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		60		mg/Kg		10/14/24 17:07	10/15/24 15:45	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-85

Date Collected: 10/08/24 10:02
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		10/14/24 11:35	10/15/24 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*10/14/24 11:35*	*10/15/24 20:44*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/14/24 11:35	10/15/24 20:44	1
Ethylbenzene	ND		0.048		mg/Kg		10/14/24 11:35	10/15/24 20:44	1
Toluene	ND		0.048		mg/Kg		10/14/24 11:35	10/15/24 20:44	1
Xylenes, Total	ND		0.096		mg/Kg		10/14/24 11:35	10/15/24 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/14/24 11:35*	*10/15/24 20:44*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		10/14/24 12:31	10/14/24 19:17	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		10/14/24 12:31	10/14/24 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*	*10/14/24 12:31*	*10/14/24 19:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		10/14/24 17:07	10/15/24 15:58	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-86

Date Collected: 10/08/24 10:08
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/14/24 11:35	10/15/24 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*10/14/24 11:35*	*10/15/24 21:28*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/14/24 11:35	10/15/24 21:28	1
Ethylbenzene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 21:28	1
Toluene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 21:28	1
Xylenes, Total	ND		0.10		mg/Kg		10/14/24 11:35	10/15/24 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*10/14/24 11:35*	*10/15/24 21:28*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		10/15/24 11:59	10/15/24 13:18	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		10/15/24 11:59	10/15/24 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*10/15/24 11:59*	*10/15/24 13:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99**		60		mg/Kg		10/15/24 12:47	10/15/24 14:47	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-87

Date Collected: 10/08/24 10:12
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-12

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/14/24 11:35	10/15/24 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*10/14/24 11:35*	*10/15/24 21:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/14/24 11:35	10/15/24 21:49	1
Ethylbenzene	ND		0.049		mg/Kg		10/14/24 11:35	10/15/24 21:49	1
Toluene	ND		0.049		mg/Kg		10/14/24 11:35	10/15/24 21:49	1
Xylenes, Total	ND		0.098		mg/Kg		10/14/24 11:35	10/15/24 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/14/24 11:35*	*10/15/24 21:49*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		10/15/24 11:59	10/15/24 13:28	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		10/15/24 11:59	10/15/24 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*10/15/24 11:59*	*10/15/24 13:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		60		mg/Kg		10/15/24 12:47	10/15/24 15:24	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-88

Date Collected: 10/08/24 10:16
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-13

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		10/14/24 11:35	10/15/24 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*10/14/24 11:35*	*10/15/24 22:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		10/14/24 11:35	10/15/24 22:11	1
Ethylbenzene	ND		0.047		mg/Kg		10/14/24 11:35	10/15/24 22:11	1
Toluene	ND		0.047		mg/Kg		10/14/24 11:35	10/15/24 22:11	1
Xylenes, Total	ND		0.094		mg/Kg		10/14/24 11:35	10/15/24 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/14/24 11:35*	*10/15/24 22:11*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		10/15/24 11:59	10/15/24 13:39	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		10/15/24 11:59	10/15/24 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*77*		*62 - 134*	*10/15/24 11:59*	*10/15/24 13:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		60		mg/Kg		10/15/24 12:47	10/15/24 15:37	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-89

Date Collected: 10/08/24 10:20
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/14/24 11:35	10/15/24 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*10/14/24 11:35*	*10/15/24 22:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/14/24 11:35	10/15/24 22:33	1
Ethylbenzene	ND		0.049		mg/Kg		10/14/24 11:35	10/15/24 22:33	1
Toluene	ND		0.049		mg/Kg		10/14/24 11:35	10/15/24 22:33	1
Xylenes, Total	ND		0.097		mg/Kg		10/14/24 11:35	10/15/24 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/14/24 11:35*	*10/15/24 22:33*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		10/15/24 11:59	10/15/24 13:50	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		10/15/24 11:59	10/15/24 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*78*		*62 - 134*	*10/15/24 11:59*	*10/15/24 13:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99**		60		mg/Kg		10/15/24 12:47	10/15/24 15:49	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-90

Date Collected: 10/08/24 10:24
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-15

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		10/14/24 11:35	10/15/24 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*35 - 166*	*10/14/24 11:35*	*10/15/24 22:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/14/24 11:35	10/15/24 22:54	1
Ethylbenzene	ND		0.047		mg/Kg		10/14/24 11:35	10/15/24 22:54	1
Toluene	ND		0.047		mg/Kg		10/14/24 11:35	10/15/24 22:54	1
Xylenes, Total	ND		0.095		mg/Kg		10/14/24 11:35	10/15/24 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*10/14/24 11:35*	*10/15/24 22:54*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		10/15/24 11:59	10/16/24 13:28	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		10/15/24 11:59	10/16/24 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*10/15/24 11:59*	*10/16/24 13:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94**		60		mg/Kg		10/15/24 12:47	10/15/24 15:59	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-91

Date Collected: 10/08/24 10:30
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-16

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/14/24 11:35	10/15/24 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*10/14/24 11:35*	*10/15/24 23:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/14/24 11:35	10/15/24 23:16	1
Ethylbenzene	ND		0.049		mg/Kg		10/14/24 11:35	10/15/24 23:16	1
Toluene	ND		0.049		mg/Kg		10/14/24 11:35	10/15/24 23:16	1
Xylenes, Total	ND		0.098		mg/Kg		10/14/24 11:35	10/15/24 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*10/14/24 11:35*	*10/15/24 23:16*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		10/15/24 11:59	10/15/24 14:11	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		10/15/24 11:59	10/15/24 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*10/15/24 11:59*	*10/15/24 14:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		10/15/24 12:47	10/15/24 16:09	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-92

Date Collected: 10/08/24 10:32
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-17

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		10/14/24 11:35	10/15/24 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*10/14/24 11:35*	*10/15/24 23:38*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/14/24 11:35	10/15/24 23:38	1
Ethylbenzene	ND		0.048		mg/Kg		10/14/24 11:35	10/15/24 23:38	1
Toluene	ND		0.048		mg/Kg		10/14/24 11:35	10/15/24 23:38	1
Xylenes, Total	ND		0.096		mg/Kg		10/14/24 11:35	10/15/24 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*10/14/24 11:35*	*10/15/24 23:38*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		10/15/24 11:59	10/15/24 14:22	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		10/15/24 11:59	10/15/24 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*	*10/15/24 11:59*	*10/15/24 14:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96**		60		mg/Kg		10/15/24 12:47	10/15/24 16:38	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-93

Date Collected: 10/08/24 10:36
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-18

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		10/14/24 11:35	10/16/24 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*10/14/24 11:35*	*10/16/24 00:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/14/24 11:35	10/16/24 00:00	1
Ethylbenzene	ND		0.048		mg/Kg		10/14/24 11:35	10/16/24 00:00	1
Toluene	ND		0.048		mg/Kg		10/14/24 11:35	10/16/24 00:00	1
Xylenes, Total	ND		0.096		mg/Kg		10/14/24 11:35	10/16/24 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*10/14/24 11:35*	*10/16/24 00:00*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		10/15/24 11:59	10/15/24 14:32	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		10/15/24 11:59	10/15/24 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*	*10/15/24 11:59*	*10/15/24 14:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		60		mg/Kg		10/15/24 12:47	10/15/24 16:48	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-94

Date Collected: 10/08/24 10:38
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-19

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		10/14/24 11:35	10/16/24 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*10/14/24 11:35*	*10/16/24 00:21*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/14/24 11:35	10/16/24 00:21	1
Ethylbenzene	ND		0.048		mg/Kg		10/14/24 11:35	10/16/24 00:21	1
Toluene	ND		0.048		mg/Kg		10/14/24 11:35	10/16/24 00:21	1
Xylenes, Total	ND		0.095		mg/Kg		10/14/24 11:35	10/16/24 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/14/24 11:35*	*10/16/24 00:21*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.4		mg/Kg		10/15/24 11:59	10/15/24 14:43	1
Motor Oil Range Organics [C28-C40]	ND		42		mg/Kg		10/15/24 11:59	10/15/24 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*10/15/24 11:59*	*10/15/24 14:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69**		60		mg/Kg		10/15/24 12:47	10/15/24 16:58	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-95

Date Collected: 10/08/24 10:40
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-20

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		10/14/24 11:35	10/16/24 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*10/14/24 11:35*	*10/16/24 00:43*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/14/24 11:35	10/16/24 00:43	1
Ethylbenzene	ND		0.047		mg/Kg		10/14/24 11:35	10/16/24 00:43	1
Toluene	ND		0.047		mg/Kg		10/14/24 11:35	10/16/24 00:43	1
Xylenes, Total	ND		0.095		mg/Kg		10/14/24 11:35	10/16/24 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/14/24 11:35*	*10/16/24 00:43*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		10/15/24 11:59	10/15/24 14:54	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		10/15/24 11:59	10/15/24 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*10/15/24 11:59*	*10/15/24 14:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**	**F2**	59		mg/Kg		10/15/24 12:47	10/15/24 17:08	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-14245/1-A
Matrix: Solid
Analysis Batch: 14381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14245

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/14/24 11:35	10/15/24 15:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*10/14/24 11:35*	*10/15/24 15:41*	*1*

Lab Sample ID: LCS 885-14245/2-A
Matrix: Solid
Analysis Batch: 14381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14245

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	27.7		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*225*		*35 - 166*

Lab Sample ID: 885-13655-1 MS
Matrix: Solid
Analysis Batch: 14381

Client Sample ID: PS-76
Prep Type: Total/NA
Prep Batch: 14245

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	28.7		mg/Kg		116	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*227*		*35 - 166*

Lab Sample ID: 885-13655-1 MSD
Matrix: Solid
Analysis Batch: 14381

Client Sample ID: PS-76
Prep Type: Total/NA
Prep Batch: 14245

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.8	28.4		mg/Kg		115	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*234*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-14245/1-A
Matrix: Solid
Analysis Batch: 14382

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14245

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/14/24 11:35	10/15/24 15:41	1
Ethylbenzene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 15:41	1
Toluene	ND		0.050		mg/Kg		10/14/24 11:35	10/15/24 15:41	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-14245/1-A
Matrix: Solid
Analysis Batch: 14382

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14245

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		10/14/24 11:35	10/15/24 15:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/14/24 11:35*	*10/15/24 15:41*	*1*

Lab Sample ID: LCS 885-14245/3-A
Matrix: Solid
Analysis Batch: 14382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14245

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.998		mg/Kg		100	70 - 130		
Ethylbenzene			1.00	0.998		mg/Kg		100	70 - 130		
Toluene			1.00	0.992		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			2.00	1.97		mg/Kg		98	70 - 130		
o-Xylene			1.00	0.983		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*

Lab Sample ID: 885-13655-2 MS
Matrix: Solid
Analysis Batch: 14382

Client Sample ID: PS-77
Prep Type: Total/NA
Prep Batch: 14245

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.994	1.17		mg/Kg		118	70 - 130		
Ethylbenzene	ND		0.994	1.19		mg/Kg		120	70 - 130		
Toluene	ND		0.994	1.18		mg/Kg		118	70 - 130		
m-Xylene & p-Xylene	ND		1.99	2.35		mg/Kg		118	70 - 130		
o-Xylene	ND		0.994	1.17		mg/Kg		118	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*

Lab Sample ID: 885-13655-2 MSD
Matrix: Solid
Analysis Batch: 14382

Client Sample ID: PS-77
Prep Type: Total/NA
Prep Batch: 14245

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.993	1.16		mg/Kg		117	70 - 130	1	20
Ethylbenzene	ND		0.993	1.19		mg/Kg		120	70 - 130	0	20
Toluene	ND		0.993	1.17		mg/Kg		117	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.99	2.35		mg/Kg		118	70 - 130	0	20
o-Xylene	ND		0.993	1.18		mg/Kg		118	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-14246/1-A
Matrix: Solid
Analysis Batch: 14195

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14246

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		10/14/24 11:51	10/14/24 14:15	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/14/24 11:51	10/14/24 14:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*10/14/24 11:51*	*10/14/24 14:15*	*1*

Lab Sample ID: LCS 885-14246/2-A
Matrix: Solid
Analysis Batch: 14195

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14246

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	36.8		mg/Kg		74	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-14269/1-A
Matrix: Solid
Analysis Batch: 14338

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14269

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		10/14/24 16:23	10/15/24 16:09	1

Lab Sample ID: LCS 885-14269/2-A
Matrix: Solid
Analysis Batch: 14338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14269

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.7		mg/Kg		102	90 - 110		

Lab Sample ID: MB 885-14271/1-A
Matrix: Solid
Analysis Batch: 14338

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14271

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		10/14/24 17:07	10/15/24 11:53	1

Lab Sample ID: LCS 885-14271/2-A
Matrix: Solid
Analysis Batch: 14338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14271

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.2		mg/Kg		101	90 - 110		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-14333/1-A
Matrix: Solid
Analysis Batch: 14361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14333

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		10/15/24 12:47	10/15/24 14:22	1

Lab Sample ID: LCS 885-14333/2-A
Matrix: Solid
Analysis Batch: 14361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14333

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.0		mg/Kg		97	90 - 110		

Lab Sample ID: 885-13655-11 MS
Matrix: Solid
Analysis Batch: 14361

Client Sample ID: PS-86
Prep Type: Total/NA
Prep Batch: 14333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	99		30.1	132		mg/Kg		109	50 - 150		

Lab Sample ID: 885-13655-11 MSD
Matrix: Solid
Analysis Batch: 14361

Client Sample ID: PS-86
Prep Type: Total/NA
Prep Batch: 14333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	99		30.1	125		mg/Kg		85	50 - 150	6	20

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

GC VOA

Prep Batch: 14245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-1	PS-76	Total/NA	Solid	5030C	
885-13655-2	PS-77	Total/NA	Solid	5030C	
885-13655-3	PS-78	Total/NA	Solid	5030C	
885-13655-4	PS-79	Total/NA	Solid	5030C	
885-13655-5	PS-80	Total/NA	Solid	5030C	
885-13655-6	PS-81	Total/NA	Solid	5030C	
885-13655-7	PS-82	Total/NA	Solid	5030C	
885-13655-8	PS-83	Total/NA	Solid	5030C	
885-13655-9	PS-84	Total/NA	Solid	5030C	
885-13655-10	PS-85	Total/NA	Solid	5030C	
885-13655-11	PS-86	Total/NA	Solid	5030C	
885-13655-12	PS-87	Total/NA	Solid	5030C	
885-13655-13	PS-88	Total/NA	Solid	5030C	
885-13655-14	PS-89	Total/NA	Solid	5030C	
885-13655-15	PS-90	Total/NA	Solid	5030C	
885-13655-16	PS-91	Total/NA	Solid	5030C	
885-13655-17	PS-92	Total/NA	Solid	5030C	
885-13655-18	PS-93	Total/NA	Solid	5030C	
885-13655-19	PS-94	Total/NA	Solid	5030C	
885-13655-20	PS-95	Total/NA	Solid	5030C	
MB 885-14245/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-14245/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-14245/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-13655-1 MS	PS-76	Total/NA	Solid	5030C	
885-13655-1 MSD	PS-76	Total/NA	Solid	5030C	
885-13655-2 MS	PS-77	Total/NA	Solid	5030C	
885-13655-2 MSD	PS-77	Total/NA	Solid	5030C	

Analysis Batch: 14381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-1	PS-76	Total/NA	Solid	8015M/D	14245
885-13655-2	PS-77	Total/NA	Solid	8015M/D	14245
885-13655-3	PS-78	Total/NA	Solid	8015M/D	14245
885-13655-4	PS-79	Total/NA	Solid	8015M/D	14245
885-13655-5	PS-80	Total/NA	Solid	8015M/D	14245
885-13655-6	PS-81	Total/NA	Solid	8015M/D	14245
885-13655-7	PS-82	Total/NA	Solid	8015M/D	14245
885-13655-8	PS-83	Total/NA	Solid	8015M/D	14245
885-13655-9	PS-84	Total/NA	Solid	8015M/D	14245
885-13655-10	PS-85	Total/NA	Solid	8015M/D	14245
885-13655-11	PS-86	Total/NA	Solid	8015M/D	14245
885-13655-12	PS-87	Total/NA	Solid	8015M/D	14245
885-13655-13	PS-88	Total/NA	Solid	8015M/D	14245
885-13655-14	PS-89	Total/NA	Solid	8015M/D	14245
885-13655-15	PS-90	Total/NA	Solid	8015M/D	14245
885-13655-16	PS-91	Total/NA	Solid	8015M/D	14245
885-13655-17	PS-92	Total/NA	Solid	8015M/D	14245
885-13655-18	PS-93	Total/NA	Solid	8015M/D	14245
885-13655-19	PS-94	Total/NA	Solid	8015M/D	14245
885-13655-20	PS-95	Total/NA	Solid	8015M/D	14245
MB 885-14245/1-A	Method Blank	Total/NA	Solid	8015M/D	14245

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

GC VOA (Continued)

Analysis Batch: 14381 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-14245/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	14245
885-13655-1 MS	PS-76	Total/NA	Solid	8015M/D	14245
885-13655-1 MSD	PS-76	Total/NA	Solid	8015M/D	14245

Analysis Batch: 14382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-1	PS-76	Total/NA	Solid	8021B	14245
885-13655-2	PS-77	Total/NA	Solid	8021B	14245
885-13655-3	PS-78	Total/NA	Solid	8021B	14245
885-13655-4	PS-79	Total/NA	Solid	8021B	14245
885-13655-5	PS-80	Total/NA	Solid	8021B	14245
885-13655-6	PS-81	Total/NA	Solid	8021B	14245
885-13655-7	PS-82	Total/NA	Solid	8021B	14245
885-13655-8	PS-83	Total/NA	Solid	8021B	14245
885-13655-9	PS-84	Total/NA	Solid	8021B	14245
885-13655-10	PS-85	Total/NA	Solid	8021B	14245
885-13655-11	PS-86	Total/NA	Solid	8021B	14245
885-13655-12	PS-87	Total/NA	Solid	8021B	14245
885-13655-13	PS-88	Total/NA	Solid	8021B	14245
885-13655-14	PS-89	Total/NA	Solid	8021B	14245
885-13655-15	PS-90	Total/NA	Solid	8021B	14245
885-13655-16	PS-91	Total/NA	Solid	8021B	14245
885-13655-17	PS-92	Total/NA	Solid	8021B	14245
885-13655-18	PS-93	Total/NA	Solid	8021B	14245
885-13655-19	PS-94	Total/NA	Solid	8021B	14245
885-13655-20	PS-95	Total/NA	Solid	8021B	14245
MB 885-14245/1-A	Method Blank	Total/NA	Solid	8021B	14245
LCS 885-14245/3-A	Lab Control Sample	Total/NA	Solid	8021B	14245
885-13655-2 MS	PS-77	Total/NA	Solid	8021B	14245
885-13655-2 MSD	PS-77	Total/NA	Solid	8021B	14245

GC Semi VOA

Analysis Batch: 14195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-1	PS-76	Total/NA	Solid	8015M/D	14246
885-13655-2	PS-77	Total/NA	Solid	8015M/D	14246
885-13655-3	PS-78	Total/NA	Solid	8015M/D	14246
885-13655-4	PS-79	Total/NA	Solid	8015M/D	14246
885-13655-5	PS-80	Total/NA	Solid	8015M/D	14246
885-13655-6	PS-81	Total/NA	Solid	8015M/D	14246
885-13655-7	PS-82	Total/NA	Solid	8015M/D	14246
885-13655-8	PS-83	Total/NA	Solid	8015M/D	14246
885-13655-9	PS-84	Total/NA	Solid	8015M/D	14246
885-13655-10	PS-85	Total/NA	Solid	8015M/D	14246
MB 885-14246/1-A	Method Blank	Total/NA	Solid	8015M/D	14246
LCS 885-14246/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	14246

Prep Batch: 14246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-1	PS-76	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

GC Semi VOA (Continued)

Prep Batch: 14246 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-2	PS-77	Total/NA	Solid	SHAKE	
885-13655-3	PS-78	Total/NA	Solid	SHAKE	
885-13655-4	PS-79	Total/NA	Solid	SHAKE	
885-13655-5	PS-80	Total/NA	Solid	SHAKE	
885-13655-6	PS-81	Total/NA	Solid	SHAKE	
885-13655-7	PS-82	Total/NA	Solid	SHAKE	
885-13655-8	PS-83	Total/NA	Solid	SHAKE	
885-13655-9	PS-84	Total/NA	Solid	SHAKE	
885-13655-10	PS-85	Total/NA	Solid	SHAKE	
MB 885-14246/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-14246/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 14287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-11	PS-86	Total/NA	Solid	SHAKE	
885-13655-12	PS-87	Total/NA	Solid	SHAKE	
885-13655-13	PS-88	Total/NA	Solid	SHAKE	
885-13655-14	PS-89	Total/NA	Solid	SHAKE	
885-13655-15	PS-90	Total/NA	Solid	SHAKE	
885-13655-16	PS-91	Total/NA	Solid	SHAKE	
885-13655-17	PS-92	Total/NA	Solid	SHAKE	
885-13655-18	PS-93	Total/NA	Solid	SHAKE	
885-13655-19	PS-94	Total/NA	Solid	SHAKE	
885-13655-20	PS-95	Total/NA	Solid	SHAKE	

Analysis Batch: 14291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-11	PS-86	Total/NA	Solid	8015M/D	14287
885-13655-12	PS-87	Total/NA	Solid	8015M/D	14287
885-13655-13	PS-88	Total/NA	Solid	8015M/D	14287
885-13655-14	PS-89	Total/NA	Solid	8015M/D	14287
885-13655-16	PS-91	Total/NA	Solid	8015M/D	14287
885-13655-17	PS-92	Total/NA	Solid	8015M/D	14287
885-13655-18	PS-93	Total/NA	Solid	8015M/D	14287
885-13655-19	PS-94	Total/NA	Solid	8015M/D	14287
885-13655-20	PS-95	Total/NA	Solid	8015M/D	14287

Analysis Batch: 14365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-15	PS-90	Total/NA	Solid	8015M/D	14287

HPLC/IC

Prep Batch: 14269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-1	PS-76	Total/NA	Solid	300_Prep	
885-13655-2	PS-77	Total/NA	Solid	300_Prep	
885-13655-3	PS-78	Total/NA	Solid	300_Prep	
885-13655-4	PS-79	Total/NA	Solid	300_Prep	
885-13655-5	PS-80	Total/NA	Solid	300_Prep	
MB 885-14269/1-A	Method Blank	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

HPLC/IC (Continued)

Prep Batch: 14269 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-14269/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 14271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-6	PS-81	Total/NA	Solid	300_Prep	
885-13655-7	PS-82	Total/NA	Solid	300_Prep	
885-13655-8	PS-83	Total/NA	Solid	300_Prep	
885-13655-9	PS-84	Total/NA	Solid	300_Prep	
885-13655-10	PS-85	Total/NA	Solid	300_Prep	
MB 885-14271/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-14271/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 14333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-11	PS-86	Total/NA	Solid	300_Prep	
885-13655-12	PS-87	Total/NA	Solid	300_Prep	
885-13655-13	PS-88	Total/NA	Solid	300_Prep	
885-13655-14	PS-89	Total/NA	Solid	300_Prep	
885-13655-15	PS-90	Total/NA	Solid	300_Prep	
885-13655-16	PS-91	Total/NA	Solid	300_Prep	
885-13655-17	PS-92	Total/NA	Solid	300_Prep	
885-13655-18	PS-93	Total/NA	Solid	300_Prep	
885-13655-19	PS-94	Total/NA	Solid	300_Prep	
885-13655-20	PS-95	Total/NA	Solid	300_Prep	
MB 885-14333/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-14333/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-13655-11 MS	PS-86	Total/NA	Solid	300_Prep	
885-13655-11 MSD	PS-86	Total/NA	Solid	300_Prep	

Analysis Batch: 14338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-1	PS-76	Total/NA	Solid	300.0	14269
885-13655-2	PS-77	Total/NA	Solid	300.0	14269
885-13655-3	PS-78	Total/NA	Solid	300.0	14269
885-13655-4	PS-79	Total/NA	Solid	300.0	14269
885-13655-5	PS-80	Total/NA	Solid	300.0	14269
885-13655-6	PS-81	Total/NA	Solid	300.0	14271
885-13655-7	PS-82	Total/NA	Solid	300.0	14271
885-13655-8	PS-83	Total/NA	Solid	300.0	14271
885-13655-9	PS-84	Total/NA	Solid	300.0	14271
885-13655-10	PS-85	Total/NA	Solid	300.0	14271
MB 885-14269/1-A	Method Blank	Total/NA	Solid	300.0	14269
MB 885-14271/1-A	Method Blank	Total/NA	Solid	300.0	14271
LCS 885-14269/2-A	Lab Control Sample	Total/NA	Solid	300.0	14269
LCS 885-14271/2-A	Lab Control Sample	Total/NA	Solid	300.0	14271

Analysis Batch: 14361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-11	PS-86	Total/NA	Solid	300.0	14333
885-13655-12	PS-87	Total/NA	Solid	300.0	14333
885-13655-13	PS-88	Total/NA	Solid	300.0	14333

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

HPLC/IC (Continued)

Analysis Batch: 14361 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13655-14	PS-89	Total/NA	Solid	300.0	14333
885-13655-15	PS-90	Total/NA	Solid	300.0	14333
885-13655-16	PS-91	Total/NA	Solid	300.0	14333
885-13655-17	PS-92	Total/NA	Solid	300.0	14333
885-13655-18	PS-93	Total/NA	Solid	300.0	14333
885-13655-19	PS-94	Total/NA	Solid	300.0	14333
885-13655-20	PS-95	Total/NA	Solid	300.0	14333
MB 885-14333/1-A	Method Blank	Total/NA	Solid	300.0	14333
LCS 885-14333/2-A	Lab Control Sample	Total/NA	Solid	300.0	14333
885-13655-11 MS	PS-86	Total/NA	Solid	300.0	14333
885-13655-11 MSD	PS-86	Total/NA	Solid	300.0	14333

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-76

Lab Sample ID: 885-13655-1

Date Collected: 10/08/24 09:30
Matrix: Solid
Date Received: 10/12/24 07:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 16:02
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 16:02
Total/NA	Prep	SHAKE			14246	KR	EET ALB	10/14/24 12:31
Total/NA	Analysis	8015M/D		1	14195	KR	EET ALB	10/14/24 17:37
Total/NA	Prep	300_Prep			14269	EH	EET ALB	10/14/24 16:23
Total/NA	Analysis	300.0		20	14338	EH	EET ALB	10/15/24 20:40

Client Sample ID: PS-77

Lab Sample ID: 885-13655-2

Date Collected: 10/08/24 09:34
Matrix: Solid
Date Received: 10/12/24 07:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 17:08
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 17:08
Total/NA	Prep	SHAKE			14246	KR	EET ALB	10/14/24 12:31
Total/NA	Analysis	8015M/D		1	14195	KR	EET ALB	10/14/24 17:48
Total/NA	Prep	300_Prep			14269	EH	EET ALB	10/14/24 16:23
Total/NA	Analysis	300.0		20	14338	EH	EET ALB	10/15/24 21:13

Client Sample ID: PS-78

Lab Sample ID: 885-13655-3

Date Collected: 10/08/24 09:40
Matrix: Solid
Date Received: 10/12/24 07:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 18:13
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 18:13
Total/NA	Prep	SHAKE			14246	KR	EET ALB	10/14/24 12:31
Total/NA	Analysis	8015M/D		1	14195	KR	EET ALB	10/14/24 17:59
Total/NA	Prep	300_Prep			14269	EH	EET ALB	10/14/24 16:23
Total/NA	Analysis	300.0		20	14338	EH	EET ALB	10/15/24 21:24

Client Sample ID: PS-79

Lab Sample ID: 885-13655-4

Date Collected: 10/08/24 09:42
Matrix: Solid
Date Received: 10/12/24 07:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 18:34

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-79

Lab Sample ID: 885-13655-4

Date Collected: 10/08/24 09:42
Date Received: 10/12/24 07:39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 18:34
Total/NA	Prep	SHAKE			14246	KR	EET ALB	10/14/24 12:31
Total/NA	Analysis	8015M/D		1	14195	KR	EET ALB	10/14/24 18:10
Total/NA	Prep	300_Prep			14269	EH	EET ALB	10/14/24 16:23
Total/NA	Analysis	300.0		20	14338	EH	EET ALB	10/15/24 21:35

Client Sample ID: PS-80

Lab Sample ID: 885-13655-5

Date Collected: 10/08/24 09:46
Date Received: 10/12/24 07:39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 18:56
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 18:56
Total/NA	Prep	SHAKE			14246	KR	EET ALB	10/14/24 12:31
Total/NA	Analysis	8015M/D		1	14195	KR	EET ALB	10/14/24 18:21
Total/NA	Prep	300_Prep			14269	EH	EET ALB	10/14/24 16:23
Total/NA	Analysis	300.0		20	14338	EH	EET ALB	10/15/24 21:46

Client Sample ID: PS-81

Lab Sample ID: 885-13655-6

Date Collected: 10/08/24 09:50
Date Received: 10/12/24 07:39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 19:18
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 19:18
Total/NA	Prep	SHAKE			14246	KR	EET ALB	10/14/24 12:31
Total/NA	Analysis	8015M/D		1	14195	KR	EET ALB	10/14/24 18:32
Total/NA	Prep	300_Prep			14271	EH	EET ALB	10/14/24 17:07
Total/NA	Analysis	300.0		20	14338	EH	EET ALB	10/15/24 15:06

Client Sample ID: PS-82

Lab Sample ID: 885-13655-7

Date Collected: 10/08/24 09:52
Date Received: 10/12/24 07:39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 19:39
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 19:39

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-13655-1
Project/Site: Roy SWD #3

Client Sample ID: PS-82
Lab Sample ID: 885-13655-7
Date Collected: 10/08/24 09:52
Matrix: Solid
Date Received: 10/12/24 07:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			14246	KR	EET ALB	10/14/24 12:31
Total/NA	Analysis	8015M/D		1	14195	KR	EET ALB	10/14/24 18:43
Total/NA	Prep	300_Prep			14271	EH	EET ALB	10/14/24 17:07
Total/NA	Analysis	300.0		20	14338	EH	EET ALB	10/15/24 15:19

Client Sample ID: PS-83
Lab Sample ID: 885-13655-8
Date Collected: 10/08/24 09:58
Matrix: Solid
Date Received: 10/12/24 07:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 20:01
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 20:01
Total/NA	Prep	SHAKE			14246	KR	EET ALB	10/14/24 12:31
Total/NA	Analysis	8015M/D		1	14195	KR	EET ALB	10/14/24 18:55
Total/NA	Prep	300_Prep			14271	EH	EET ALB	10/14/24 17:07
Total/NA	Analysis	300.0		20	14338	EH	EET ALB	10/15/24 15:32

Client Sample ID: PS-84
Lab Sample ID: 885-13655-9
Date Collected: 10/08/24 10:00
Matrix: Solid
Date Received: 10/12/24 07:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 20:23
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 20:23
Total/NA	Prep	SHAKE			14246	KR	EET ALB	10/14/24 12:31
Total/NA	Analysis	8015M/D		1	14195	KR	EET ALB	10/14/24 19:06
Total/NA	Prep	300_Prep			14271	EH	EET ALB	10/14/24 17:07
Total/NA	Analysis	300.0		20	14338	EH	EET ALB	10/15/24 15:45

Client Sample ID: PS-85
Lab Sample ID: 885-13655-10
Date Collected: 10/08/24 10:02
Matrix: Solid
Date Received: 10/12/24 07:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 20:44
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 20:44
Total/NA	Prep	SHAKE			14246	KR	EET ALB	10/14/24 12:31
Total/NA	Analysis	8015M/D		1	14195	KR	EET ALB	10/14/24 19:17

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-85
Date Collected: 10/08/24 10:02
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			14271	EH	EET ALB	10/14/24 17:07
Total/NA	Analysis	300.0		20	14338	EH	EET ALB	10/15/24 15:58

Client Sample ID: PS-86
Date Collected: 10/08/24 10:08
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 21:28
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 21:28
Total/NA	Prep	SHAKE			14287	EM	EET ALB	10/15/24 11:59
Total/NA	Analysis	8015M/D		1	14291	KR	EET ALB	10/15/24 13:18
Total/NA	Prep	300_Prep			14333	EH	EET ALB	10/15/24 12:47
Total/NA	Analysis	300.0		20	14361	JT	EET ALB	10/15/24 14:47

Client Sample ID: PS-87
Date Collected: 10/08/24 10:12
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 21:49
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 21:49
Total/NA	Prep	SHAKE			14287	EM	EET ALB	10/15/24 11:59
Total/NA	Analysis	8015M/D		1	14291	KR	EET ALB	10/15/24 13:28
Total/NA	Prep	300_Prep			14333	EH	EET ALB	10/15/24 12:47
Total/NA	Analysis	300.0		20	14361	JT	EET ALB	10/15/24 15:24

Client Sample ID: PS-88
Date Collected: 10/08/24 10:16
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 22:11
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 22:11
Total/NA	Prep	SHAKE			14287	EM	EET ALB	10/15/24 11:59
Total/NA	Analysis	8015M/D		1	14291	KR	EET ALB	10/15/24 13:39
Total/NA	Prep	300_Prep			14333	EH	EET ALB	10/15/24 12:47
Total/NA	Analysis	300.0		20	14361	JT	EET ALB	10/15/24 15:37

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-89

Lab Sample ID: 885-13655-14

Date Collected: 10/08/24 10:20
Date Received: 10/12/24 07:39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 22:33
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 22:33
Total/NA	Prep	SHAKE			14287	EM	EET ALB	10/15/24 11:59
Total/NA	Analysis	8015M/D		1	14291	KR	EET ALB	10/15/24 13:50
Total/NA	Prep	300_Prep			14333	EH	EET ALB	10/15/24 12:47
Total/NA	Analysis	300.0		20	14361	JT	EET ALB	10/15/24 15:49

Client Sample ID: PS-90

Lab Sample ID: 885-13655-15

Date Collected: 10/08/24 10:24
Date Received: 10/12/24 07:39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 22:54
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 22:54
Total/NA	Prep	SHAKE			14287	EM	EET ALB	10/15/24 11:59
Total/NA	Analysis	8015M/D		1	14365	EM	EET ALB	10/16/24 13:28
Total/NA	Prep	300_Prep			14333	EH	EET ALB	10/15/24 12:47
Total/NA	Analysis	300.0		20	14361	JT	EET ALB	10/15/24 15:59

Client Sample ID: PS-91

Lab Sample ID: 885-13655-16

Date Collected: 10/08/24 10:30
Date Received: 10/12/24 07:39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 23:16
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 23:16
Total/NA	Prep	SHAKE			14287	EM	EET ALB	10/15/24 11:59
Total/NA	Analysis	8015M/D		1	14291	KR	EET ALB	10/15/24 14:11
Total/NA	Prep	300_Prep			14333	EH	EET ALB	10/15/24 12:47
Total/NA	Analysis	300.0		20	14361	JT	EET ALB	10/15/24 16:09

Client Sample ID: PS-92

Lab Sample ID: 885-13655-17

Date Collected: 10/08/24 10:32
Date Received: 10/12/24 07:39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/15/24 23:38

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-13655-1
Project/Site: Roy SWD #3

Client Sample ID: PS-92
Lab Sample ID: 885-13655-17
Date Collected: 10/08/24 10:32
Matrix: Solid
Date Received: 10/12/24 07:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/15/24 23:38
Total/NA	Prep	SHAKE			14287	EM	EET ALB	10/15/24 11:59
Total/NA	Analysis	8015M/D		1	14291	KR	EET ALB	10/15/24 14:22
Total/NA	Prep	300_Prep			14333	EH	EET ALB	10/15/24 12:47
Total/NA	Analysis	300.0		20	14361	JT	EET ALB	10/15/24 16:38

Client Sample ID: PS-93
Lab Sample ID: 885-13655-18
Date Collected: 10/08/24 10:36
Matrix: Solid
Date Received: 10/12/24 07:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/16/24 00:00
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/16/24 00:00
Total/NA	Prep	SHAKE			14287	EM	EET ALB	10/15/24 11:59
Total/NA	Analysis	8015M/D		1	14291	KR	EET ALB	10/15/24 14:32
Total/NA	Prep	300_Prep			14333	EH	EET ALB	10/15/24 12:47
Total/NA	Analysis	300.0		20	14361	JT	EET ALB	10/15/24 16:48

Client Sample ID: PS-94
Lab Sample ID: 885-13655-19
Date Collected: 10/08/24 10:38
Matrix: Solid
Date Received: 10/12/24 07:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/16/24 00:21
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/16/24 00:21
Total/NA	Prep	SHAKE			14287	EM	EET ALB	10/15/24 11:59
Total/NA	Analysis	8015M/D		1	14291	KR	EET ALB	10/15/24 14:43
Total/NA	Prep	300_Prep			14333	EH	EET ALB	10/15/24 12:47
Total/NA	Analysis	300.0		20	14361	JT	EET ALB	10/15/24 16:58

Client Sample ID: PS-95
Lab Sample ID: 885-13655-20
Date Collected: 10/08/24 10:40
Matrix: Solid
Date Received: 10/12/24 07:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8015M/D		1	14381	AT	EET ALB	10/16/24 00:43
Total/NA	Prep	5030C			14245	AT	EET ALB	10/14/24 11:35
Total/NA	Analysis	8021B		1	14382	AT	EET ALB	10/16/24 00:43

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13655-1

Client Sample ID: PS-95

Date Collected: 10/08/24 10:40
Date Received: 10/12/24 07:39

Lab Sample ID: 885-13655-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			14287	EM	EET ALB	10/15/24 11:59
Total/NA	Analysis	8015M/D		1	14291	KR	EET ALB	10/15/24 14:54
Total/NA	Prep	300_Prep			14333	EH	EET ALB	10/15/24 12:47
Total/NA	Analysis	300.0		20	14361	JT	EET ALB	10/15/24 17:08

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-13655-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG / Ranger Env.

Mailing Address: EOG - 5509 Champions Drive, Midland TX 79706

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ■ **Rush**__EOG TAT_____

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No Yes
# of Coolers: 1
Cooler Temp(Including CF): 1.5 -0.2 = 1.3°c

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-13655 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10/8/2024	0930	Soil	PS-76	1 x 4oz jar	Ice		X	X	X
10/8/2024	0934	Soil	PS-77	1 x 4oz jar	Ice		X	X	X
10/8/2024	0940	Soil	PS-78	1 x 4oz jar	Ice		X	X	X
10/8/2024	0942	Soil	PS-79	1 x 4oz jar	Ice		X	X	X
10/8/2024	0946	Soil	PS-80	1 x 4oz jar	Ice		X	X	X
10/8/2024	0950	Soil	PS-81	1 x 4oz jar	Ice		X	X	X
10/8/2024	0952	Soil	PS-82	1 x 4oz jar	Ice		X	X	X
10/8/2024	0958	Soil	PS-83	1 x 4oz jar	Ice		X	X	X
10/8/2024	1000	Soil	PS-84	1 x 4oz jar	Ice		X	X	X
10/8/2024	1002	Soil	PS-85	1 x 4oz jar	Ice		X	X	X
10/8/2024	1008	Soil	PS-86	1 x 4oz jar	Ice		X	X	X
10/8/2024	1012	Soil	PS-87	1 x 4oz jar	Ice		X	X	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10/11/24	1229				10/11/24	1229
10/11/24	1900			courier	10/12/24	7:39

Remarks: Bill to EOG (attn: Chase Settle)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG / Ranger Env.

Mailing Address: EOG - 5509 Champions Drive, Midland TX 79706

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other_____

■ **EDD** (Type) __Excel_____

Turn-Around Time:

☐ Standard ■ **Rush**__EOG TAT_____

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☒ Yes ☐ No Yogi

# of Coolers: 1

Cooler Temp(including CF): 1.5 - 0.2 = 1.3°c

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Analysis Request: BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10/8/2024	1016	Soil	PS-88	1 x 4oz jar	Ice		X	X	X
10/8/2024	1020	Soil	PS-89	1 x 4oz jar	Ice		X	X	X
10/8/2024	1024	Soil	PS-90	1 x 4oz jar	Ice		X	X	X
10/8/2024	1030	Soil	PS-91	1 x 4oz jar	Ice		X	X	X
10/8/2024	1032	Soil	PS-92	1 x 4oz jar	Ice		X	X	X
10/8/2024	1036	Soil	PS-93	1 x 4oz jar	Ice		X	X	X
10/8/2024	1038	Soil	PS-94	1 x 4oz jar	Ice		X	X	X
10/8/2024	1040	Soil	PS-95	1 x 4oz jar	Ice		X	X	X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/11/24	1229				10/11/24	1229
10/11/24	1900			courier	10/12/24	7:39

Remarks: Bill to EOG (attn: Chase Settle)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

10/22/2024

Page 1158 of 2289

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-13655-1

Login Number: 13655 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 10/24/2024 12:58:28 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-13993-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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10/24/2024 12:58:28 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-13993-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-13993-1
Project/Site: Roy SWD #3

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-13993-1

Job ID: 885-13993-1 Eurofins Albuquerque

Job Narrative
885-13993-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/19/2024 11:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-14629 and analytical batch 885-14585 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: PS-60A

Date Collected: 10/17/24 09:30
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13993-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		10/21/24 10:29	10/22/24 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*10/21/24 10:29*	*10/22/24 22:48*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		10/21/24 10:29	10/22/24 22:48	1
Ethylbenzene	ND		0.046		mg/Kg		10/21/24 10:29	10/22/24 22:48	1
Toluene	ND		0.046		mg/Kg		10/21/24 10:29	10/22/24 22:48	1
Xylenes, Total	ND		0.093		mg/Kg		10/21/24 10:29	10/22/24 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*10/21/24 10:29*	*10/22/24 22:48*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		10/21/24 12:47	10/21/24 15:55	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		10/21/24 12:47	10/21/24 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*10/21/24 12:47*	*10/21/24 15:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**85**		61		mg/Kg		10/21/24 14:25	10/22/24 00:30	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: PS-73A

Date Collected: 10/17/24 09:34
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13993-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		10/21/24 10:29	10/22/24 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*10/21/24 10:29*	*10/22/24 23:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/21/24 10:29	10/22/24 23:11	1
Ethylbenzene	ND		0.047		mg/Kg		10/21/24 10:29	10/22/24 23:11	1
Toluene	ND		0.047		mg/Kg		10/21/24 10:29	10/22/24 23:11	1
Xylenes, Total	ND		0.095		mg/Kg		10/21/24 10:29	10/22/24 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*10/21/24 10:29*	*10/22/24 23:11*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		10/21/24 12:47	10/21/24 16:08	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/21/24 12:47	10/21/24 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*10/21/24 12:47*	*10/21/24 16:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72**		60		mg/Kg		10/21/24 14:25	10/22/24 01:02	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: PS-75A

Date Collected: 10/17/24 09:36
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13993-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		10/21/24 10:29	10/22/24 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*10/21/24 10:29*	*10/22/24 23:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/21/24 10:29	10/22/24 23:34	1
Ethylbenzene	ND		0.047		mg/Kg		10/21/24 10:29	10/22/24 23:34	1
Toluene	ND		0.047		mg/Kg		10/21/24 10:29	10/22/24 23:34	1
Xylenes, Total	ND		0.095		mg/Kg		10/21/24 10:29	10/22/24 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*10/21/24 10:29*	*10/22/24 23:34*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		10/21/24 12:47	10/21/24 16:21	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		10/21/24 12:47	10/21/24 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*	*10/21/24 12:47*	*10/21/24 16:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		60		mg/Kg		10/21/24 14:25	10/22/24 01:35	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: PS-74A

Date Collected: 10/17/24 09:40
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13993-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/21/24 10:29	10/22/24 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*10/21/24 10:29*	*10/22/24 23:58*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/21/24 10:29	10/22/24 23:58	1
Ethylbenzene	ND		0.050		mg/Kg		10/21/24 10:29	10/22/24 23:58	1
Toluene	ND		0.050		mg/Kg		10/21/24 10:29	10/22/24 23:58	1
Xylenes, Total	ND		0.10		mg/Kg		10/21/24 10:29	10/22/24 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*10/21/24 10:29*	*10/22/24 23:58*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		10/21/24 12:47	10/21/24 16:34	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		10/21/24 12:47	10/21/24 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*10/21/24 12:47*	*10/21/24 16:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86**		60		mg/Kg		10/21/24 14:25	10/22/24 01:46	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: P2-IW2.2B

Date Collected: 10/17/24 10:10
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13993-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/21/24 10:29	10/23/24 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*10/21/24 10:29*	*10/23/24 00:45*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/21/24 10:29	10/23/24 00:45	1
Ethylbenzene	ND		0.050		mg/Kg		10/21/24 10:29	10/23/24 00:45	1
Toluene	ND		0.050		mg/Kg		10/21/24 10:29	10/23/24 00:45	1
Xylenes, Total	ND		0.099		mg/Kg		10/21/24 10:29	10/23/24 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*10/21/24 10:29*	*10/23/24 00:45*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		10/21/24 12:47	10/21/24 16:46	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		10/21/24 12:47	10/21/24 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*76*		*62 - 134*	*10/21/24 12:47*	*10/21/24 16:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		60		mg/Kg		10/21/24 14:25	10/22/24 01:57	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: P2-IW6.6C

Date Collected: 10/17/24 10:12
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13993-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		10/21/24 10:29	10/23/24 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*10/21/24 10:29*	*10/23/24 01:09*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/21/24 10:29	10/23/24 01:09	1
Ethylbenzene	ND		0.048		mg/Kg		10/21/24 10:29	10/23/24 01:09	1
Toluene	ND		0.048		mg/Kg		10/21/24 10:29	10/23/24 01:09	1
Xylenes, Total	ND		0.096		mg/Kg		10/21/24 10:29	10/23/24 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*10/21/24 10:29*	*10/23/24 01:09*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		10/21/24 12:47	10/21/24 16:59	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/21/24 12:47	10/21/24 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*10/21/24 12:47*	*10/21/24 16:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		60		mg/Kg		10/21/24 14:25	10/22/24 02:08	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: P2-IW8A

Date Collected: 10/17/24 10:14
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13993-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		10/21/24 10:29	10/23/24 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*10/21/24 10:29*	*10/23/24 01:32*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/21/24 10:29	10/23/24 01:32	1
Ethylbenzene	ND		0.047		mg/Kg		10/21/24 10:29	10/23/24 01:32	1
Toluene	ND		0.047		mg/Kg		10/21/24 10:29	10/23/24 01:32	1
Xylenes, Total	ND		0.094		mg/Kg		10/21/24 10:29	10/23/24 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*10/21/24 10:29*	*10/23/24 01:32*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		10/21/24 12:47	10/21/24 17:12	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/21/24 12:47	10/21/24 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*10/21/24 12:47*	*10/21/24 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		60		mg/Kg		10/21/24 14:25	10/22/24 02:18	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: P2-IW10B

Date Collected: 10/17/24 10:20
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13993-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		10/21/24 10:29	10/23/24 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*10/21/24 10:29*	*10/23/24 01:56*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/21/24 10:29	10/23/24 01:56	1
Ethylbenzene	ND		0.048		mg/Kg		10/21/24 10:29	10/23/24 01:56	1
Toluene	ND		0.048		mg/Kg		10/21/24 10:29	10/23/24 01:56	1
Xylenes, Total	ND		0.096		mg/Kg		10/21/24 10:29	10/23/24 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*10/21/24 10:29*	*10/23/24 01:56*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		10/21/24 12:47	10/21/24 17:24	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		10/21/24 12:47	10/21/24 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*70*		*62 - 134*	*10/21/24 12:47*	*10/21/24 17:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**370**		60		mg/Kg		10/21/24 14:25	10/22/24 02:29	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: P2-IW12B

Date Collected: 10/17/24 10:24
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13993-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		10/21/24 10:29	10/23/24 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*10/21/24 10:29*	*10/23/24 02:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/21/24 10:29	10/23/24 02:19	1
Ethylbenzene	ND		0.048		mg/Kg		10/21/24 10:29	10/23/24 02:19	1
Toluene	ND		0.048		mg/Kg		10/21/24 10:29	10/23/24 02:19	1
Xylenes, Total	ND		0.095		mg/Kg		10/21/24 10:29	10/23/24 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*10/21/24 10:29*	*10/23/24 02:19*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		10/21/24 12:47	10/21/24 17:50	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/21/24 12:47	10/21/24 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*10/21/24 12:47*	*10/21/24 17:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		61		mg/Kg		10/21/24 14:25	10/22/24 02:40	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: P2-IW17B

Date Collected: 10/17/24 10:26
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13993-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/21/24 10:29	10/23/24 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*10/21/24 10:29*	*10/23/24 02:43*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/21/24 10:29	10/23/24 02:43	1
Ethylbenzene	ND		0.049		mg/Kg		10/21/24 10:29	10/23/24 02:43	1
Toluene	ND		0.049		mg/Kg		10/21/24 10:29	10/23/24 02:43	1
Xylenes, Total	ND		0.099		mg/Kg		10/21/24 10:29	10/23/24 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*10/21/24 10:29*	*10/23/24 02:43*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		10/21/24 12:47	10/21/24 18:03	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/21/24 12:47	10/21/24 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*10/21/24 12:47*	*10/21/24 18:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		61		mg/Kg		10/21/24 14:25	10/22/24 02:51	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: P2-W28C

Date Collected: 10/17/24 10:30
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13993-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/21/24 10:29	10/23/24 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*10/21/24 10:29*	*10/23/24 03:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/21/24 10:29	10/23/24 03:06	1
Ethylbenzene	ND		0.049		mg/Kg		10/21/24 10:29	10/23/24 03:06	1
Toluene	ND		0.049		mg/Kg		10/21/24 10:29	10/23/24 03:06	1
Xylenes, Total	ND		0.098		mg/Kg		10/21/24 10:29	10/23/24 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*10/21/24 10:29*	*10/23/24 03:06*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		10/21/24 12:47	10/21/24 18:16	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		10/21/24 12:47	10/21/24 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*77*		*62 - 134*	*10/21/24 12:47*	*10/21/24 18:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**	**F2**	61		mg/Kg		10/21/24 14:25	10/22/24 03:02	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: LCS 885-14592/2-A
Matrix: Solid
Analysis Batch: 14740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14592

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.6		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*202*		*35 - 166*

Lab Sample ID: MB 885-4592/1-A
Matrix: Solid
Analysis Batch: 14740

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4592

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/08/24 12:36	10/22/24 17:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*05/08/24 12:36*	*10/22/24 17:40*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 885-14592/3-A
Matrix: Solid
Analysis Batch: 14741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14592

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.08		mg/Kg		108	70 - 130		
Ethylbenzene			1.00	1.08		mg/Kg		108	70 - 130		
Toluene			1.00	1.09		mg/Kg		109	70 - 130		
m-Xylene & p-Xylene			2.00	2.13		mg/Kg		107	70 - 130		
o-Xylene			1.00	1.05		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*

Lab Sample ID: MB 885-4592/1-A
Matrix: Solid
Analysis Batch: 14741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4592

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/08/24 12:36	10/22/24 17:40	1
Ethylbenzene	ND		0.050		mg/Kg		05/08/24 12:36	10/22/24 17:40	1
Toluene	ND		0.050		mg/Kg		05/08/24 12:36	10/22/24 17:40	1
Xylenes, Total	ND		0.10		mg/Kg		05/08/24 12:36	10/22/24 17:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*05/08/24 12:36*	*10/22/24 17:40*	*1*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-14629/1-A
Matrix: Solid
Analysis Batch: 14585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14629

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		10/21/24 12:47	10/21/24 14:39	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/21/24 12:47	10/21/24 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*10/21/24 12:47*	*10/21/24 14:39*	*1*

Lab Sample ID: LCS 885-14629/2-A
Matrix: Solid
Analysis Batch: 14585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14629

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	45.8		mg/Kg		92	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-14640/1-A
Matrix: Solid
Analysis Batch: 14643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14640

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		10/21/24 14:25	10/22/24 00:08	1

Lab Sample ID: LCS 885-14640/2-A
Matrix: Solid
Analysis Batch: 14643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14640

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.3		mg/Kg		101	90 - 110		

Lab Sample ID: 885-13993-1 MS
Matrix: Solid
Analysis Batch: 14643

Client Sample ID: PS-60A
Prep Type: Total/NA
Prep Batch: 14640

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	85		30.2	107		mg/Kg		73	50 - 150		

Lab Sample ID: 885-13993-1 MSD
Matrix: Solid
Analysis Batch: 14643

Client Sample ID: PS-60A
Prep Type: Total/NA
Prep Batch: 14640

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	85		30.2	107		mg/Kg		71	50 - 150	1	20

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

GC VOA

Prep Batch: 4592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-4592/1-A	Method Blank	Total/NA	Solid	5030C	

Prep Batch: 14592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13993-1	PS-60A	Total/NA	Solid	5030C	
885-13993-2	PS-73A	Total/NA	Solid	5030C	
885-13993-3	PS-75A	Total/NA	Solid	5030C	
885-13993-4	PS-74A	Total/NA	Solid	5030C	
885-13993-5	P2-IW2.2B	Total/NA	Solid	5030C	
885-13993-6	P2-IW6.6C	Total/NA	Solid	5030C	
885-13993-7	P2-IW8A	Total/NA	Solid	5030C	
885-13993-8	P2-IW10B	Total/NA	Solid	5030C	
885-13993-9	P2-IW12B	Total/NA	Solid	5030C	
885-13993-10	P2-IW17B	Total/NA	Solid	5030C	
885-13993-11	P2-W28C	Total/NA	Solid	5030C	
LCS 885-14592/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-14592/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 14740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13993-1	PS-60A	Total/NA	Solid	8015M/D	14592
885-13993-2	PS-73A	Total/NA	Solid	8015M/D	14592
885-13993-3	PS-75A	Total/NA	Solid	8015M/D	14592
885-13993-4	PS-74A	Total/NA	Solid	8015M/D	14592
885-13993-5	P2-IW2.2B	Total/NA	Solid	8015M/D	14592
885-13993-6	P2-IW6.6C	Total/NA	Solid	8015M/D	14592
885-13993-7	P2-IW8A	Total/NA	Solid	8015M/D	14592
885-13993-8	P2-IW10B	Total/NA	Solid	8015M/D	14592
885-13993-9	P2-IW12B	Total/NA	Solid	8015M/D	14592
885-13993-10	P2-IW17B	Total/NA	Solid	8015M/D	14592
885-13993-11	P2-W28C	Total/NA	Solid	8015M/D	14592
MB 885-4592/1-A	Method Blank	Total/NA	Solid	8015M/D	4592
LCS 885-14592/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	14592

Analysis Batch: 14741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13993-1	PS-60A	Total/NA	Solid	8021B	14592
885-13993-2	PS-73A	Total/NA	Solid	8021B	14592
885-13993-3	PS-75A	Total/NA	Solid	8021B	14592
885-13993-4	PS-74A	Total/NA	Solid	8021B	14592
885-13993-5	P2-IW2.2B	Total/NA	Solid	8021B	14592
885-13993-6	P2-IW6.6C	Total/NA	Solid	8021B	14592
885-13993-7	P2-IW8A	Total/NA	Solid	8021B	14592
885-13993-8	P2-IW10B	Total/NA	Solid	8021B	14592
885-13993-9	P2-IW12B	Total/NA	Solid	8021B	14592
885-13993-10	P2-IW17B	Total/NA	Solid	8021B	14592
885-13993-11	P2-W28C	Total/NA	Solid	8021B	14592
MB 885-4592/1-A	Method Blank	Total/NA	Solid	8021B	4592
LCS 885-14592/3-A	Lab Control Sample	Total/NA	Solid	8021B	14592

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

GC Semi VOA

Analysis Batch: 14585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13993-1	PS-60A	Total/NA	Solid	8015M/D	14629
885-13993-2	PS-73A	Total/NA	Solid	8015M/D	14629
885-13993-3	PS-75A	Total/NA	Solid	8015M/D	14629
885-13993-4	PS-74A	Total/NA	Solid	8015M/D	14629
885-13993-5	P2-IW2.2B	Total/NA	Solid	8015M/D	14629
885-13993-6	P2-IW6.6C	Total/NA	Solid	8015M/D	14629
885-13993-7	P2-IW8A	Total/NA	Solid	8015M/D	14629
885-13993-8	P2-IW10B	Total/NA	Solid	8015M/D	14629
885-13993-9	P2-IW12B	Total/NA	Solid	8015M/D	14629
885-13993-10	P2-IW17B	Total/NA	Solid	8015M/D	14629
885-13993-11	P2-W28C	Total/NA	Solid	8015M/D	14629
MB 885-14629/1-A	Method Blank	Total/NA	Solid	8015M/D	14629
LCS 885-14629/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	14629

Prep Batch: 14629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13993-1	PS-60A	Total/NA	Solid	SHAKE	
885-13993-2	PS-73A	Total/NA	Solid	SHAKE	
885-13993-3	PS-75A	Total/NA	Solid	SHAKE	
885-13993-4	PS-74A	Total/NA	Solid	SHAKE	
885-13993-5	P2-IW2.2B	Total/NA	Solid	SHAKE	
885-13993-6	P2-IW6.6C	Total/NA	Solid	SHAKE	
885-13993-7	P2-IW8A	Total/NA	Solid	SHAKE	
885-13993-8	P2-IW10B	Total/NA	Solid	SHAKE	
885-13993-9	P2-IW12B	Total/NA	Solid	SHAKE	
885-13993-10	P2-IW17B	Total/NA	Solid	SHAKE	
885-13993-11	P2-W28C	Total/NA	Solid	SHAKE	
MB 885-14629/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-14629/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 14640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13993-1	PS-60A	Total/NA	Solid	300_Prep	
885-13993-2	PS-73A	Total/NA	Solid	300_Prep	
885-13993-3	PS-75A	Total/NA	Solid	300_Prep	
885-13993-4	PS-74A	Total/NA	Solid	300_Prep	
885-13993-5	P2-IW2.2B	Total/NA	Solid	300_Prep	
885-13993-6	P2-IW6.6C	Total/NA	Solid	300_Prep	
885-13993-7	P2-IW8A	Total/NA	Solid	300_Prep	
885-13993-8	P2-IW10B	Total/NA	Solid	300_Prep	
885-13993-9	P2-IW12B	Total/NA	Solid	300_Prep	
885-13993-10	P2-IW17B	Total/NA	Solid	300_Prep	
885-13993-11	P2-W28C	Total/NA	Solid	300_Prep	
MB 885-14640/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-14640/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-13993-1 MS	PS-60A	Total/NA	Solid	300_Prep	
885-13993-1 MSD	PS-60A	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

HPLC/IC

Analysis Batch: 14643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13993-1	PS-60A	Total/NA	Solid	300.0	14640
885-13993-2	PS-73A	Total/NA	Solid	300.0	14640
885-13993-3	PS-75A	Total/NA	Solid	300.0	14640
885-13993-4	PS-74A	Total/NA	Solid	300.0	14640
885-13993-5	P2-IW2.2B	Total/NA	Solid	300.0	14640
885-13993-6	P2-IW6.6C	Total/NA	Solid	300.0	14640
885-13993-7	P2-IW8A	Total/NA	Solid	300.0	14640
885-13993-8	P2-IW10B	Total/NA	Solid	300.0	14640
885-13993-9	P2-IW12B	Total/NA	Solid	300.0	14640
885-13993-10	P2-IW17B	Total/NA	Solid	300.0	14640
885-13993-11	P2-W28C	Total/NA	Solid	300.0	14640
MB 885-14640/1-A	Method Blank	Total/NA	Solid	300.0	14640
LCS 885-14640/2-A	Lab Control Sample	Total/NA	Solid	300.0	14640
885-13993-1 MS	PS-60A	Total/NA	Solid	300.0	14640
885-13993-1 MSD	PS-60A	Total/NA	Solid	300.0	14640

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: PS-60A

Lab Sample ID: 885-13993-1

Date Collected: 10/17/24 09:30
Date Received: 10/19/24 11:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/22/24 22:48
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/22/24 22:48
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 15:55
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 00:30

Client Sample ID: PS-73A

Lab Sample ID: 885-13993-2

Date Collected: 10/17/24 09:34
Date Received: 10/19/24 11:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/22/24 23:11
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/22/24 23:11
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 16:08
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 01:02

Client Sample ID: PS-75A

Lab Sample ID: 885-13993-3

Date Collected: 10/17/24 09:36
Date Received: 10/19/24 11:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/22/24 23:34
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/22/24 23:34
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 16:21
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 01:35

Client Sample ID: PS-74A

Lab Sample ID: 885-13993-4

Date Collected: 10/17/24 09:40
Date Received: 10/19/24 11:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/22/24 23:58

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: PS-74A

Lab Sample ID: 885-13993-4
Matrix: Solid
Date Collected: 10/17/24 09:40
Date Received: 10/19/24 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/22/24 23:58
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 16:34
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 01:46

Client Sample ID: P2-IW2.2B

Lab Sample ID: 885-13993-5
Matrix: Solid
Date Collected: 10/17/24 10:10
Date Received: 10/19/24 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/23/24 00:45
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/23/24 00:45
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 16:46
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 01:57

Client Sample ID: P2-IW6.6C

Lab Sample ID: 885-13993-6
Matrix: Solid
Date Collected: 10/17/24 10:12
Date Received: 10/19/24 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/23/24 01:09
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/23/24 01:09
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 16:59
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 02:08

Client Sample ID: P2-IW8A

Lab Sample ID: 885-13993-7
Matrix: Solid
Date Collected: 10/17/24 10:14
Date Received: 10/19/24 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/23/24 01:32
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/23/24 01:32

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: P2-IW8A

Lab Sample ID: 885-13993-7

Date Collected: 10/17/24 10:14
Date Received: 10/19/24 11:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 17:12
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 02:18

Client Sample ID: P2-IW10B

Lab Sample ID: 885-13993-8

Date Collected: 10/17/24 10:20
Date Received: 10/19/24 11:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/23/24 01:56
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/23/24 01:56
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 17:24
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 02:29

Client Sample ID: P2-IW12B

Lab Sample ID: 885-13993-9

Date Collected: 10/17/24 10:24
Date Received: 10/19/24 11:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/23/24 02:19
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/23/24 02:19
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 17:50
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 02:40

Client Sample ID: P2-IW17B

Lab Sample ID: 885-13993-10

Date Collected: 10/17/24 10:26
Date Received: 10/19/24 11:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/23/24 02:43
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/23/24 02:43
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 18:03

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13993-1

Client Sample ID: P2-IW17B

Lab Sample ID: 885-13993-10

Date Collected: 10/17/24 10:26
Date Received: 10/19/24 11:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 02:51

Client Sample ID: P2-W28C

Lab Sample ID: 885-13993-11

Date Collected: 10/17/24 10:30
Date Received: 10/19/24 11:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/23/24 03:06
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/23/24 03:06
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 18:16
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 03:02

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-13993-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.4 -0.1 = 0.3

HALL ENVIRONM
ANALYSIS LABOI
4901 Hawkins NE - Albuquerque, NM 87
Tel. 505-345-3975 Fax 505-345-4107

885-13993 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10/17/24	0930	SOIL	PS-60A	1x4oz Jar	ICE	1	X	X	X
	0934		PS-73A			2			
	0936		PS-75A			3			
	0940		PS-74A			4			
	1010		P2-IW2.2B			5			
	1012		P2-IW6.6C			6			
	1014		P2-IW8A			7			
	1026		P2-IW10B			8			
	1024		P2-IW12B			9			
	1026		P2-IW17B			10			
	1030		P2-W28C			11			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/17/24	1650				10/18/24	0850
Date:	Time:	Relinquished by:	Received by:	Via: COURIER	Date	Time
					10/19/24	11:35

Remarks: Bill to EOG ~~Artesia~~ Midland

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

10/24/2024

Received by OCD: 6/19/2025 8:41:42 AM

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-13993-1

Login Number: 13993 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 11/14/2024 6:03:52 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-15176-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
11/14/2024 6:03:52 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-15176-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-15176-1
Project/Site: Roy SWD #3

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-15176-1

Job ID: 885-15176-1 Eurofins Albuquerque

Job Narrative
885-15176-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/13/2024 7:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-B56

Date Collected: 11/12/24 09:10
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.2		mg/Kg		11/13/24 09:38	11/13/24 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*11/13/24 09:38*	*11/13/24 12:28*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021		mg/Kg		11/13/24 09:38	11/13/24 12:28	1
Ethylbenzene	ND		0.042		mg/Kg		11/13/24 09:38	11/13/24 12:28	1
Toluene	ND		0.042		mg/Kg		11/13/24 09:38	11/13/24 12:28	1
Xylenes, Total	ND		0.084		mg/Kg		11/13/24 09:38	11/13/24 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*11/13/24 09:38*	*11/13/24 12:28*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		11/13/24 10:01	11/14/24 11:10	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/13/24 10:01	11/14/24 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*11/13/24 10:01*	*11/14/24 11:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		11/13/24 07:08	11/13/24 16:10	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: PS-R1

Date Collected: 11/12/24 09:12
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.1		mg/Kg		11/13/24 09:38	11/13/24 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*11/13/24 09:38*	*11/13/24 13:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021		mg/Kg		11/13/24 09:38	11/13/24 13:39	1
Ethylbenzene	ND		0.041		mg/Kg		11/13/24 09:38	11/13/24 13:39	1
Toluene	ND		0.041		mg/Kg		11/13/24 09:38	11/13/24 13:39	1
Xylenes, Total	ND		0.082		mg/Kg		11/13/24 09:38	11/13/24 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*11/13/24 09:38*	*11/13/24 13:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		11/13/24 10:01	11/14/24 11:23	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/13/24 10:01	11/14/24 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*11/13/24 10:01*	*11/14/24 11:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		60		mg/Kg		11/13/24 07:08	11/13/24 16:21	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-B3A

Date Collected: 11/12/24 09:14
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		3.5		mg/Kg		11/13/24 09:38	11/13/24 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*11/13/24 09:38*	*11/13/24 14:50*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		11/13/24 09:38	11/13/24 14:50	1
Ethylbenzene	ND		0.035		mg/Kg		11/13/24 09:38	11/13/24 14:50	1
Toluene	ND		0.035		mg/Kg		11/13/24 09:38	11/13/24 14:50	1
Xylenes, Total	ND		0.069		mg/Kg		11/13/24 09:38	11/13/24 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*11/13/24 09:38*	*11/13/24 14:50*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		11/13/24 10:01	11/14/24 11:35	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		11/13/24 10:01	11/14/24 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*113*		*62 - 134*	*11/13/24 10:01*	*11/14/24 11:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61**		60		mg/Kg		11/13/24 07:08	11/13/24 16:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-B4A

Date Collected: 11/12/24 09:16
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.0		mg/Kg		11/13/24 09:38	11/13/24 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*11/13/24 09:38*	*11/13/24 15:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		11/13/24 09:38	11/13/24 15:13	1
Ethylbenzene	ND		0.040		mg/Kg		11/13/24 09:38	11/13/24 15:13	1
Toluene	ND		0.040		mg/Kg		11/13/24 09:38	11/13/24 15:13	1
Xylenes, Total	ND		0.079		mg/Kg		11/13/24 09:38	11/13/24 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*11/13/24 09:38*	*11/13/24 15:13*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		11/13/24 10:01	11/14/24 12:00	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/13/24 10:01	11/14/24 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*	*11/13/24 10:01*	*11/14/24 12:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		61		mg/Kg		11/13/24 07:08	11/13/24 17:04	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-IW19

Date Collected: 11/12/24 09:20
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		3.6		mg/Kg		11/13/24 09:38	11/13/24 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*11/13/24 09:38*	*11/13/24 15:36*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		11/13/24 09:38	11/13/24 15:36	1
Ethylbenzene	ND		0.036		mg/Kg		11/13/24 09:38	11/13/24 15:36	1
Toluene	ND		0.036		mg/Kg		11/13/24 09:38	11/13/24 15:36	1
Xylenes, Total	ND		0.072		mg/Kg		11/13/24 09:38	11/13/24 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*11/13/24 09:38*	*11/13/24 15:36*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		11/13/24 10:01	11/14/24 12:12	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		11/13/24 10:01	11/14/24 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*11/13/24 10:01*	*11/14/24 12:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		60		mg/Kg		11/13/24 07:08	11/13/24 17:15	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-IW20

Date Collected: 11/12/24 09:24
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.1		mg/Kg		11/13/24 09:38	11/13/24 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*11/13/24 09:38*	*11/13/24 15:59*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		11/13/24 09:38	11/13/24 15:59	1
Ethylbenzene	ND		0.041		mg/Kg		11/13/24 09:38	11/13/24 15:59	1
Toluene	ND		0.041		mg/Kg		11/13/24 09:38	11/13/24 15:59	1
Xylenes, Total	ND		0.081		mg/Kg		11/13/24 09:38	11/13/24 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*11/13/24 09:38*	*11/13/24 15:59*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		11/13/24 10:01	11/14/24 12:25	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		11/13/24 10:01	11/14/24 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*11/13/24 10:01*	*11/14/24 12:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		11/13/24 07:08	11/13/24 17:26	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-IW21

Date Collected: 11/12/24 09:26
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		3.9		mg/Kg		11/13/24 09:38	11/13/24 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*11/13/24 09:38*	*11/13/24 16:23*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		11/13/24 09:38	11/13/24 16:23	1
Ethylbenzene	ND		0.039		mg/Kg		11/13/24 09:38	11/13/24 16:23	1
Toluene	ND		0.039		mg/Kg		11/13/24 09:38	11/13/24 16:23	1
Xylenes, Total	ND		0.078		mg/Kg		11/13/24 09:38	11/13/24 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*11/13/24 09:38*	*11/13/24 16:23*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		11/13/24 10:01	11/14/24 12:38	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/13/24 10:01	11/14/24 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*11/13/24 10:01*	*11/14/24 12:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		11/13/24 07:08	11/13/24 17:37	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-IW22

Date Collected: 11/12/24 09:30
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		3.5		mg/Kg		11/13/24 09:38	11/13/24 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*11/13/24 09:38*	*11/13/24 16:46*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		11/13/24 09:38	11/13/24 16:46	1
Ethylbenzene	ND		0.035		mg/Kg		11/13/24 09:38	11/13/24 16:46	1
Toluene	ND		0.035		mg/Kg		11/13/24 09:38	11/13/24 16:46	1
Xylenes, Total	ND		0.070		mg/Kg		11/13/24 09:38	11/13/24 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*11/13/24 09:38*	*11/13/24 16:46*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		11/13/24 10:01	11/14/24 12:50	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		11/13/24 10:01	11/14/24 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*11/13/24 10:01*	*11/14/24 12:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		59		mg/Kg		11/13/24 07:08	11/13/24 17:48	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-IW23

Date Collected: 11/12/24 09:32
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.0		mg/Kg		11/13/24 09:38	11/13/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*11/13/24 09:38*	*11/13/24 17:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		11/13/24 09:38	11/13/24 17:33	1
Ethylbenzene	ND		0.040		mg/Kg		11/13/24 09:38	11/13/24 17:33	1
Toluene	ND		0.040		mg/Kg		11/13/24 09:38	11/13/24 17:33	1
Xylenes, Total	ND		0.080		mg/Kg		11/13/24 09:38	11/13/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*11/13/24 09:38*	*11/13/24 17:33*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		11/13/24 10:01	11/14/24 13:03	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		11/13/24 10:01	11/14/24 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*11/13/24 10:01*	*11/14/24 13:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**320**		60		mg/Kg		11/13/24 07:08	11/13/24 17:59	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-IW24

Date Collected: 11/12/24 09:34
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		3.3		mg/Kg		11/13/24 09:38	11/13/24 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*11/13/24 09:38*	*11/13/24 17:57*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.016		mg/Kg		11/13/24 09:38	11/13/24 17:57	1
Ethylbenzene	ND		0.033		mg/Kg		11/13/24 09:38	11/13/24 17:57	1
Toluene	ND		0.033		mg/Kg		11/13/24 09:38	11/13/24 17:57	1
Xylenes, Total	ND		0.066		mg/Kg		11/13/24 09:38	11/13/24 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*11/13/24 09:38*	*11/13/24 17:57*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		11/13/24 10:01	11/14/24 13:15	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		11/13/24 10:01	11/14/24 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*11/13/24 10:01*	*11/14/24 13:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		11/13/24 07:08	11/13/24 18:09	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-W37

Date Collected: 11/12/24 09:36
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		3.9		mg/Kg		11/13/24 09:38	11/13/24 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*11/13/24 09:38*	*11/13/24 18:20*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		11/13/24 09:38	11/13/24 18:20	1
Ethylbenzene	ND		0.039		mg/Kg		11/13/24 09:38	11/13/24 18:20	1
Toluene	ND		0.039		mg/Kg		11/13/24 09:38	11/13/24 18:20	1
Xylenes, Total	ND		0.077		mg/Kg		11/13/24 09:38	11/13/24 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*11/13/24 09:38*	*11/13/24 18:20*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		11/13/24 10:01	11/14/24 13:28	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/13/24 10:01	11/14/24 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*11/13/24 10:01*	*11/14/24 13:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		11/13/24 07:08	11/13/24 18:20	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-W38

Date Collected: 11/12/24 10:00
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-12

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/13/24 09:38	11/13/24 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*11/13/24 09:38*	*11/13/24 18:44*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/13/24 09:38	11/13/24 18:44	1
Ethylbenzene	ND		0.047		mg/Kg		11/13/24 09:38	11/13/24 18:44	1
Toluene	ND		0.047		mg/Kg		11/13/24 09:38	11/13/24 18:44	1
Xylenes, Total	ND		0.094		mg/Kg		11/13/24 09:38	11/13/24 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*11/13/24 09:38*	*11/13/24 18:44*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		11/13/24 10:01	11/14/24 13:41	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/13/24 10:01	11/14/24 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*11/13/24 10:01*	*11/14/24 13:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		11/13/24 07:08	11/13/24 18:31	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-W39

Date Collected: 11/12/24 10:02
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-13

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.1		mg/Kg		11/13/24 09:38	11/13/24 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*11/13/24 09:38*	*11/13/24 19:08*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021		mg/Kg		11/13/24 09:38	11/13/24 19:08	1
Ethylbenzene	ND		0.041		mg/Kg		11/13/24 09:38	11/13/24 19:08	1
Toluene	ND		0.041		mg/Kg		11/13/24 09:38	11/13/24 19:08	1
Xylenes, Total	ND		0.082		mg/Kg		11/13/24 09:38	11/13/24 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*11/13/24 09:38*	*11/13/24 19:08*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		11/13/24 10:01	11/14/24 13:53	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		11/13/24 10:01	11/14/24 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*11/13/24 10:01*	*11/14/24 13:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**390**		60		mg/Kg		11/13/24 07:08	11/13/24 19:04	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-W40

Date Collected: 11/12/24 10:04
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.3		mg/Kg		11/13/24 09:38	11/13/24 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*11/13/24 09:38*	*11/13/24 19:31*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg		11/13/24 09:38	11/13/24 19:31	1
Ethylbenzene	ND		0.043		mg/Kg		11/13/24 09:38	11/13/24 19:31	1
Toluene	ND		0.043		mg/Kg		11/13/24 09:38	11/13/24 19:31	1
Xylenes, Total	ND		0.087		mg/Kg		11/13/24 09:38	11/13/24 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*11/13/24 09:38*	*11/13/24 19:31*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		11/13/24 10:01	11/14/24 14:06	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/13/24 10:01	11/14/24 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*11/13/24 10:01*	*11/14/24 14:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61		mg/Kg		11/13/24 07:08	11/13/24 19:15	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-W41

Date Collected: 11/12/24 10:06
Date Received: 11/13/24 07:35

Lab Sample ID: 885-15176-15

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		3.8		mg/Kg		11/13/24 09:38	11/13/24 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*11/13/24 09:38*	*11/13/24 19:55*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		11/13/24 09:38	11/13/24 19:55	1
Ethylbenzene	ND		0.038		mg/Kg		11/13/24 09:38	11/13/24 19:55	1
Toluene	ND		0.038		mg/Kg		11/13/24 09:38	11/13/24 19:55	1
Xylenes, Total	ND		0.076		mg/Kg		11/13/24 09:38	11/13/24 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*11/13/24 09:38*	*11/13/24 19:55*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		11/13/24 10:01	11/14/24 14:19	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/13/24 10:01	11/14/24 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*11/13/24 10:01*	*11/14/24 14:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		11/13/24 07:08	11/13/24 19:26	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-15837/1-A
Matrix: Solid
Analysis Batch: 15854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15837

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/13/24 09:38	11/13/24 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*11/13/24 09:38*	*11/13/24 10:54*	*1*

Lab Sample ID: LCS 885-15837/2-A
Matrix: Solid
Analysis Batch: 15854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15837

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.9		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*202*		*35 - 166*

Lab Sample ID: 885-15176-1 MS
Matrix: Solid
Analysis Batch: 15854

Client Sample ID: P2-B56
Prep Type: Total/NA
Prep Batch: 15837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		20.9	22.4		mg/Kg		107	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*211*		*35 - 166*

Lab Sample ID: 885-15176-1 MSD
Matrix: Solid
Analysis Batch: 15854

Client Sample ID: P2-B56
Prep Type: Total/NA
Prep Batch: 15837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		20.9	22.4		mg/Kg		107	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*213*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-15837/1-A
Matrix: Solid
Analysis Batch: 15853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15837

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/13/24 09:38	11/13/24 10:54	1
Ethylbenzene	ND		0.050		mg/Kg		11/13/24 09:38	11/13/24 10:54	1
Toluene	ND		0.050		mg/Kg		11/13/24 09:38	11/13/24 10:54	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-15837/1-A
Matrix: Solid
Analysis Batch: 15853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15837

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		11/13/24 09:38	11/13/24 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*11/13/24 09:38*	*11/13/24 10:54*	*1*

Lab Sample ID: LCS 885-15837/3-A
Matrix: Solid
Analysis Batch: 15853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15837

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.02		mg/Kg		102	70 - 130		
Ethylbenzene			1.00	1.07		mg/Kg		107	70 - 130		
m,p-Xylene			2.00	2.12		mg/Kg		106	70 - 130		
o-Xylene			1.00	1.04		mg/Kg		104	70 - 130		
Toluene			1.00	1.07		mg/Kg		107	70 - 130		
Xylenes, Total			3.00	3.15		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*

Lab Sample ID: 885-15176-2 MS
Matrix: Solid
Analysis Batch: 15853

Client Sample ID: PS-R1
Prep Type: Total/NA
Prep Batch: 15837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.820	0.851		mg/Kg		104	70 - 130		
Ethylbenzene	ND		0.820	0.892		mg/Kg		109	70 - 130		
m,p-Xylene	ND		1.64	1.77		mg/Kg		108	70 - 130		
o-Xylene	ND		0.820	0.863		mg/Kg		105	70 - 130		
Toluene	ND		0.820	0.880		mg/Kg		107	70 - 130		
Xylenes, Total	ND		2.46	2.63		mg/Kg		107	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*

Lab Sample ID: 885-15176-2 MSD
Matrix: Solid
Analysis Batch: 15853

Client Sample ID: PS-R1
Prep Type: Total/NA
Prep Batch: 15837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.820	0.845		mg/Kg		103	70 - 130	1	20
Ethylbenzene	ND		0.820	0.896		mg/Kg		109	70 - 130	0	20
m,p-Xylene	ND		1.64	1.77		mg/Kg		108	70 - 130	0	20
o-Xylene	ND		0.820	0.867		mg/Kg		106	70 - 130	0	20
Toluene	ND		0.820	0.873		mg/Kg		106	70 - 130	1	20
Xylenes, Total	ND		2.46	2.64		mg/Kg		107	70 - 130	0	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-15176-2 MSD
Matrix: Solid
Analysis Batch: 15853

Client Sample ID: PS-R1
Prep Type: Total/NA
Prep Batch: 15837

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-15841/1-A
Matrix: Solid
Analysis Batch: 15903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15841

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		11/13/24 10:01	11/14/24 09:44	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		11/13/24 10:01	11/14/24 09:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*11/13/24 10:01*	*11/14/24 09:44*	*1*

Lab Sample ID: LCS 885-15841/2-A
Matrix: Solid
Analysis Batch: 15903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15841

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	48.7		mg/Kg		97	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-15814/1-A
Matrix: Solid
Analysis Batch: 15817

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15814

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		11/13/24 07:08	11/13/24 08:44	1

Lab Sample ID: LCS 885-15814/2-A
Matrix: Solid
Analysis Batch: 15817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15814

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.0		mg/Kg		97	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

GC VOA

Prep Batch: 15837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15176-1	P2-B56	Total/NA	Solid	5035	
885-15176-2	PS-R1	Total/NA	Solid	5035	
885-15176-3	P2-B3A	Total/NA	Solid	5035	
885-15176-4	P2-B4A	Total/NA	Solid	5035	
885-15176-5	P2-IW19	Total/NA	Solid	5035	
885-15176-6	P2-IW20	Total/NA	Solid	5035	
885-15176-7	P2-IW21	Total/NA	Solid	5035	
885-15176-8	P2-IW22	Total/NA	Solid	5035	
885-15176-9	P2-IW23	Total/NA	Solid	5035	
885-15176-10	P2-IW24	Total/NA	Solid	5035	
885-15176-11	P2-W37	Total/NA	Solid	5035	
885-15176-12	P2-W38	Total/NA	Solid	5035	
885-15176-13	P2-W39	Total/NA	Solid	5035	
885-15176-14	P2-W40	Total/NA	Solid	5035	
885-15176-15	P2-W41	Total/NA	Solid	5035	
MB 885-15837/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-15837/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-15837/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-15176-1 MS	P2-B56	Total/NA	Solid	5035	
885-15176-1 MSD	P2-B56	Total/NA	Solid	5035	
885-15176-2 MS	PS-R1	Total/NA	Solid	5035	
885-15176-2 MSD	PS-R1	Total/NA	Solid	5035	

Analysis Batch: 15853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15176-1	P2-B56	Total/NA	Solid	8021B	15837
885-15176-2	PS-R1	Total/NA	Solid	8021B	15837
885-15176-3	P2-B3A	Total/NA	Solid	8021B	15837
885-15176-4	P2-B4A	Total/NA	Solid	8021B	15837
885-15176-5	P2-IW19	Total/NA	Solid	8021B	15837
885-15176-6	P2-IW20	Total/NA	Solid	8021B	15837
885-15176-7	P2-IW21	Total/NA	Solid	8021B	15837
885-15176-8	P2-IW22	Total/NA	Solid	8021B	15837
885-15176-9	P2-IW23	Total/NA	Solid	8021B	15837
885-15176-10	P2-IW24	Total/NA	Solid	8021B	15837
885-15176-11	P2-W37	Total/NA	Solid	8021B	15837
885-15176-12	P2-W38	Total/NA	Solid	8021B	15837
885-15176-13	P2-W39	Total/NA	Solid	8021B	15837
885-15176-14	P2-W40	Total/NA	Solid	8021B	15837
885-15176-15	P2-W41	Total/NA	Solid	8021B	15837
MB 885-15837/1-A	Method Blank	Total/NA	Solid	8021B	15837
LCS 885-15837/3-A	Lab Control Sample	Total/NA	Solid	8021B	15837
885-15176-2 MS	PS-R1	Total/NA	Solid	8021B	15837
885-15176-2 MSD	PS-R1	Total/NA	Solid	8021B	15837

Analysis Batch: 15854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15176-1	P2-B56	Total/NA	Solid	8015M/D	15837
885-15176-2	PS-R1	Total/NA	Solid	8015M/D	15837
885-15176-3	P2-B3A	Total/NA	Solid	8015M/D	15837
885-15176-4	P2-B4A	Total/NA	Solid	8015M/D	15837

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

GC VOA (Continued)

Analysis Batch: 15854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15176-5	P2-IW19	Total/NA	Solid	8015M/D	15837
885-15176-6	P2-IW20	Total/NA	Solid	8015M/D	15837
885-15176-7	P2-IW21	Total/NA	Solid	8015M/D	15837
885-15176-8	P2-IW22	Total/NA	Solid	8015M/D	15837
885-15176-9	P2-IW23	Total/NA	Solid	8015M/D	15837
885-15176-10	P2-IW24	Total/NA	Solid	8015M/D	15837
885-15176-11	P2-W37	Total/NA	Solid	8015M/D	15837
885-15176-12	P2-W38	Total/NA	Solid	8015M/D	15837
885-15176-13	P2-W39	Total/NA	Solid	8015M/D	15837
885-15176-14	P2-W40	Total/NA	Solid	8015M/D	15837
885-15176-15	P2-W41	Total/NA	Solid	8015M/D	15837
MB 885-15837/1-A	Method Blank	Total/NA	Solid	8015M/D	15837
LCS 885-15837/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	15837
885-15176-1 MS	P2-B56	Total/NA	Solid	8015M/D	15837
885-15176-1 MSD	P2-B56	Total/NA	Solid	8015M/D	15837

GC Semi VOA

Prep Batch: 15841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15176-1	P2-B56	Total/NA	Solid	SHAKE	
885-15176-2	PS-R1	Total/NA	Solid	SHAKE	
885-15176-3	P2-B3A	Total/NA	Solid	SHAKE	
885-15176-4	P2-B4A	Total/NA	Solid	SHAKE	
885-15176-5	P2-IW19	Total/NA	Solid	SHAKE	
885-15176-6	P2-IW20	Total/NA	Solid	SHAKE	
885-15176-7	P2-IW21	Total/NA	Solid	SHAKE	
885-15176-8	P2-IW22	Total/NA	Solid	SHAKE	
885-15176-9	P2-IW23	Total/NA	Solid	SHAKE	
885-15176-10	P2-IW24	Total/NA	Solid	SHAKE	
885-15176-11	P2-W37	Total/NA	Solid	SHAKE	
885-15176-12	P2-W38	Total/NA	Solid	SHAKE	
885-15176-13	P2-W39	Total/NA	Solid	SHAKE	
885-15176-14	P2-W40	Total/NA	Solid	SHAKE	
885-15176-15	P2-W41	Total/NA	Solid	SHAKE	
MB 885-15841/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-15841/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 15903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15176-1	P2-B56	Total/NA	Solid	8015M/D	15841
885-15176-2	PS-R1	Total/NA	Solid	8015M/D	15841
885-15176-3	P2-B3A	Total/NA	Solid	8015M/D	15841
885-15176-4	P2-B4A	Total/NA	Solid	8015M/D	15841
885-15176-5	P2-IW19	Total/NA	Solid	8015M/D	15841
885-15176-6	P2-IW20	Total/NA	Solid	8015M/D	15841
885-15176-7	P2-IW21	Total/NA	Solid	8015M/D	15841
885-15176-8	P2-IW22	Total/NA	Solid	8015M/D	15841
885-15176-9	P2-IW23	Total/NA	Solid	8015M/D	15841
885-15176-10	P2-IW24	Total/NA	Solid	8015M/D	15841
885-15176-11	P2-W37	Total/NA	Solid	8015M/D	15841

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

GC Semi VOA (Continued)

Analysis Batch: 15903 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15176-12	P2-W38	Total/NA	Solid	8015M/D	15841
885-15176-13	P2-W39	Total/NA	Solid	8015M/D	15841
885-15176-14	P2-W40	Total/NA	Solid	8015M/D	15841
885-15176-15	P2-W41	Total/NA	Solid	8015M/D	15841
MB 885-15841/1-A	Method Blank	Total/NA	Solid	8015M/D	15841
LCS 885-15841/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	15841

HPLC/IC

Prep Batch: 15814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15176-1	P2-B56	Total/NA	Solid	300_Prep	
885-15176-2	PS-R1	Total/NA	Solid	300_Prep	
885-15176-3	P2-B3A	Total/NA	Solid	300_Prep	
885-15176-4	P2-B4A	Total/NA	Solid	300_Prep	
885-15176-5	P2-IW19	Total/NA	Solid	300_Prep	
885-15176-6	P2-IW20	Total/NA	Solid	300_Prep	
885-15176-7	P2-IW21	Total/NA	Solid	300_Prep	
885-15176-8	P2-IW22	Total/NA	Solid	300_Prep	
885-15176-9	P2-IW23	Total/NA	Solid	300_Prep	
885-15176-10	P2-IW24	Total/NA	Solid	300_Prep	
885-15176-11	P2-W37	Total/NA	Solid	300_Prep	
885-15176-12	P2-W38	Total/NA	Solid	300_Prep	
885-15176-13	P2-W39	Total/NA	Solid	300_Prep	
885-15176-14	P2-W40	Total/NA	Solid	300_Prep	
885-15176-15	P2-W41	Total/NA	Solid	300_Prep	
MB 885-15814/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-15814/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 15817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15176-1	P2-B56	Total/NA	Solid	300.0	15814
885-15176-2	PS-R1	Total/NA	Solid	300.0	15814
885-15176-3	P2-B3A	Total/NA	Solid	300.0	15814
885-15176-4	P2-B4A	Total/NA	Solid	300.0	15814
885-15176-5	P2-IW19	Total/NA	Solid	300.0	15814
885-15176-6	P2-IW20	Total/NA	Solid	300.0	15814
885-15176-7	P2-IW21	Total/NA	Solid	300.0	15814
885-15176-8	P2-IW22	Total/NA	Solid	300.0	15814
885-15176-9	P2-IW23	Total/NA	Solid	300.0	15814
885-15176-10	P2-IW24	Total/NA	Solid	300.0	15814
885-15176-11	P2-W37	Total/NA	Solid	300.0	15814
885-15176-12	P2-W38	Total/NA	Solid	300.0	15814
885-15176-13	P2-W39	Total/NA	Solid	300.0	15814
885-15176-14	P2-W40	Total/NA	Solid	300.0	15814
885-15176-15	P2-W41	Total/NA	Solid	300.0	15814
MB 885-15814/1-A	Method Blank	Total/NA	Solid	300.0	15814
LCS 885-15814/2-A	Lab Control Sample	Total/NA	Solid	300.0	15814

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-B56

Lab Sample ID: 885-15176-1

Date Collected: 11/12/24 09:10
Date Received: 11/13/24 07:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 12:28
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 12:28
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 11:10
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 16:10

Client Sample ID: PS-R1

Lab Sample ID: 885-15176-2

Date Collected: 11/12/24 09:12
Date Received: 11/13/24 07:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 13:39
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 13:39
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 11:23
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 16:21

Client Sample ID: P2-B3A

Lab Sample ID: 885-15176-3

Date Collected: 11/12/24 09:14
Date Received: 11/13/24 07:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 14:50
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 14:50
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 11:35
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 16:54

Client Sample ID: P2-B4A

Lab Sample ID: 885-15176-4

Date Collected: 11/12/24 09:16
Date Received: 11/13/24 07:35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 15:13

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-B4A

Lab Sample ID: 885-15176-4

Date Collected: 11/12/24 09:16
Matrix: Solid
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 15:13
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 12:00
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 17:04

Client Sample ID: P2-IW19

Lab Sample ID: 885-15176-5

Date Collected: 11/12/24 09:20
Matrix: Solid
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 15:36
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 15:36
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 12:12
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 17:15

Client Sample ID: P2-IW20

Lab Sample ID: 885-15176-6

Date Collected: 11/12/24 09:24
Matrix: Solid
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 15:59
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 15:59
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 12:25
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 17:26

Client Sample ID: P2-IW21

Lab Sample ID: 885-15176-7

Date Collected: 11/12/24 09:26
Matrix: Solid
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 16:23
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 16:23

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-IW21

Lab Sample ID: 885-15176-7

Date Collected: 11/12/24 09:26
Matrix: Solid
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 12:38
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 17:37

Client Sample ID: P2-IW22

Lab Sample ID: 885-15176-8

Date Collected: 11/12/24 09:30
Matrix: Solid
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 16:46
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 16:46
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 12:50
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 17:48

Client Sample ID: P2-IW23

Lab Sample ID: 885-15176-9

Date Collected: 11/12/24 09:32
Matrix: Solid
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 17:33
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 17:33
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 13:03
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 17:59

Client Sample ID: P2-IW24

Lab Sample ID: 885-15176-10

Date Collected: 11/12/24 09:34
Matrix: Solid
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 17:57
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 17:57
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 13:15

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-IW24

Lab Sample ID: 885-15176-10
Matrix: Solid
Date Collected: 11/12/24 09:34
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 18:09

Client Sample ID: P2-W37

Lab Sample ID: 885-15176-11
Matrix: Solid
Date Collected: 11/12/24 09:36
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 18:20
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 18:20
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 13:28
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 18:20

Client Sample ID: P2-W38

Lab Sample ID: 885-15176-12
Matrix: Solid
Date Collected: 11/12/24 10:00
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 18:44
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 18:44
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 13:41
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 18:31

Client Sample ID: P2-W39

Lab Sample ID: 885-15176-13
Matrix: Solid
Date Collected: 11/12/24 10:02
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 19:08
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 19:08
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 13:53
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 19:04

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15176-1

Client Sample ID: P2-W40

Lab Sample ID: 885-15176-14

Date Collected: 11/12/24 10:04
Matrix: Solid
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 19:31
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 19:31
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 14:06
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 19:15

Client Sample ID: P2-W41

Lab Sample ID: 885-15176-15

Date Collected: 11/12/24 10:06
Matrix: Solid
Date Received: 11/13/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8015M/D		1	15854	JP	EET ALB	11/13/24 19:55
Total/NA	Prep	5035			15837	JP	EET ALB	11/13/24 09:38
Total/NA	Analysis	8021B		1	15853	JP	EET ALB	11/13/24 19:55
Total/NA	Prep	SHAKE			15841	MI	EET ALB	11/13/24 10:01
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 14:19
Total/NA	Prep	300_Prep			15814	JT	EET ALB	11/13/24 07:08
Total/NA	Analysis	300.0		20	15817	JT	EET ALB	11/13/24 19:26

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-15176-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

HALL ENVIRONM
ANALYSIS LABOR
4901 Hawkins NE - Albuquerque, NM 8710
Tel. 505-345-3975 Fax 505-345-4107

885-15176 COC

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 24-hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martin 11/13/24

On Ice: ☑ Yes ☐ No

# of Coolers: 3 Mojo

Cooler Temp(including CF): See Remarks

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/12/24	0910	soil	P2-B56	4 oz Jar	ICE	1	X	X	X
	0912		P2-B1			2			
	0914		P2-B3A			3			
	0916		P2-B4A			4			
	0920		P2-IW19			5			
	0924		P2-IW20			6			
	0926		P2-IW21			7			
	0930		P2-IW22			8			
	0932		P2-IW23			9			
	0934		P2-IW24			10			
	0936		P2-W37			11			
	1000		P2-W38			12			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/12/24	1445				11/13/24	1445
11/13/24	1900			courier	11/13/24	7:35

Remarks: Bill to EOG Artesia
6.9+0.3 = 1.2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☑ **Rush** 24 hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ~~☐ Yes~~ ☐ No

# of Coolers: 1 Mojo

Cooler Temp(including CF): 0.9+0.3=1.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/12/24	1002	soil	P2-W39	4oz Jars	ICE	13	X	X	X
"	1004	"	P2-W40	"	"	14	"	"	"
"	1006	"	P2-W41	"	"	15	"	"	"

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/12/24	1445				11/13/24	1445
11/13/24	1900			Courier	11/13/24	7:35

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

11/14/2024

Page 1221 of 2289

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-15176-1

Login Number: 15176 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 12/4/2024 4:53:21 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-15992-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
12/4/2024 4:53:21 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-15992-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-15992-1
Project/Site: Roy SWD #3

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-15992-1

Job ID: 885-15992-1 Eurofins Albuquerque

Job Narrative
885-15992-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 11/27/2024 7:47 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15992-1

Client Sample ID: W-2B

Lab Sample ID: 885-15992-1

Date Collected: 11/25/24 12:45
Matrix: Solid
Date Received: 11/27/24 07:47

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		11/27/24 11:37	12/03/24 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*11/27/24 11:37*	*12/03/24 02:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 11:37	12/03/24 02:16	1
Ethylbenzene	ND		0.048		mg/Kg		11/27/24 11:37	12/03/24 02:16	1
Toluene	ND		0.048		mg/Kg		11/27/24 11:37	12/03/24 02:16	1
Xylenes, Total	ND		0.095		mg/Kg		11/27/24 11:37	12/03/24 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*11/27/24 11:37*	*12/03/24 02:16*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		12/02/24 11:08	12/02/24 13:17	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		12/02/24 11:08	12/02/24 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*12/02/24 11:08*	*12/02/24 13:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**350**		60		mg/Kg		11/27/24 14:36	12/02/24 11:45	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15992-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-16756/1-A
Matrix: Solid
Analysis Batch: 16861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16756

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/27/24 11:37	12/02/24 22:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*11/27/24 11:37*	*12/02/24 22:23*	*1*

Lab Sample ID: LCS 885-16756/2-A
Matrix: Solid
Analysis Batch: 16861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16756

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	21.7		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*187*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-16756/1-A
Matrix: Solid
Analysis Batch: 16860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16756

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/27/24 11:37	12/02/24 22:23	1
Ethylbenzene	ND		0.050		mg/Kg		11/27/24 11:37	12/02/24 22:23	1
Toluene	ND		0.050		mg/Kg		11/27/24 11:37	12/02/24 22:23	1
Xylenes, Total	ND		0.10		mg/Kg		11/27/24 11:37	12/02/24 22:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*11/27/24 11:37*	*12/02/24 22:23*	*1*

Lab Sample ID: LCS 885-16756/3-A
Matrix: Solid
Analysis Batch: 16860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16756

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.15		mg/Kg		115	70 - 130		
Ethylbenzene			1.00	1.17		mg/Kg		117	70 - 130		
Toluene			1.00	1.17		mg/Kg		117	70 - 130		
m-Xylene & p-Xylene			2.00	2.28		mg/Kg		114	70 - 130		
o-Xylene			1.00	1.13		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15992-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-16827/1-A
Matrix: Solid
Analysis Batch: 16831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16827

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		12/02/24 11:08	12/02/24 12:56	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/02/24 11:08	12/02/24 12:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*12/02/24 11:08*	*12/02/24 12:56*	*1*

Lab Sample ID: LCS 885-16827/2-A
Matrix: Solid
Analysis Batch: 16831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16827

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	36.3		mg/Kg		73	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-16775/1-A
Matrix: Solid
Analysis Batch: 16799

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16775

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		11/27/24 14:36	12/02/24 08:59	1

Lab Sample ID: LCS 885-16775/2-A
Matrix: Solid
Analysis Batch: 16799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16775

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.7		mg/Kg		96	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15992-1

GC VOA

Prep Batch: 16756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15992-1	W-2B	Total/NA	Solid	5030C	
MB 885-16756/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-16756/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-16756/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 16860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15992-1	W-2B	Total/NA	Solid	8021B	16756
MB 885-16756/1-A	Method Blank	Total/NA	Solid	8021B	16756
LCS 885-16756/3-A	Lab Control Sample	Total/NA	Solid	8021B	16756

Analysis Batch: 16861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15992-1	W-2B	Total/NA	Solid	8015M/D	16756
MB 885-16756/1-A	Method Blank	Total/NA	Solid	8015M/D	16756
LCS 885-16756/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	16756

GC Semi VOA

Prep Batch: 16827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15992-1	W-2B	Total/NA	Solid	SHAKE	
MB 885-16827/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-16827/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 16831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15992-1	W-2B	Total/NA	Solid	8015M/D	16827
MB 885-16827/1-A	Method Blank	Total/NA	Solid	8015M/D	16827
LCS 885-16827/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	16827

HPLC/IC

Prep Batch: 16775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15992-1	W-2B	Total/NA	Solid	300_Prep	
MB 885-16775/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-16775/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 16799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15992-1	W-2B	Total/NA	Solid	300.0	16775
MB 885-16775/1-A	Method Blank	Total/NA	Solid	300.0	16775
LCS 885-16775/2-A	Lab Control Sample	Total/NA	Solid	300.0	16775

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15992-1

Client Sample ID: W-2B

Date Collected: 11/25/24 12:45
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15992-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16756	JP	EET ALB	11/27/24 11:37
Total/NA	Analysis	8015M/D		1	16861	JP	EET ALB	12/03/24 02:16
Total/NA	Prep	5030C			16756	JP	EET ALB	11/27/24 11:37
Total/NA	Analysis	8021B		1	16860	JP	EET ALB	12/03/24 02:16
Total/NA	Prep	SHAKE			16827	EM	EET ALB	12/02/24 11:08
Total/NA	Analysis	8015M/D		1	16831	MI	EET ALB	12/02/24 13:17
Total/NA	Prep	300_Prep			16775	EH	EET ALB	11/27/24 14:36
Total/NA	Analysis	300.0		20	16799	JT	EET ALB	12/02/24 11:45

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-15992-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☑ **Rush** 48 hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☒ Yes ☐ No mgo

# of Coolers: 1

Cooler Temp(including CF): 2.3 + 0 = 2.3 °C

HALL ENVIRONM
ANALYSIS LABOI
4901 Hawkins NE - Albuquerque, NM 871
Tel. 505-345-3975 Fax 505-345-4107

885-15992 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/25/24	1245	Soil	W-2B	4 4oz Jar	ICE		X	X	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/26/24	0930				11/26/24	0930
11/26/24	1900					

Remarks: Bill to EOG ~~Artesia~~ MIDLAND

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

12/4/2024

Page 1234 of 2289

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-15992-1

Login Number: 15992 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

ATTACHMENT 3 – NMOCD CORRESPONDENCE

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Thursday, May 12, 2022 10:00 AM
To: Robert.Hamlet@state.nm.us; ahowell@pvtn.net; austin@atkinseng.com
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Subject: Roy SWD 3 (nAPP2123047534) Sampling Notification

Good morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD #3
7-19S-25E; Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 07:00 a.m. on Monday, May 16, 2022 and will continue through Friday, May 20, 2022.

Thank you,

Miriam Morales

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, May 19, 2022 9:58 AM
To: Robert.Hamlet@state.nm.us; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Jennifer.Nobui@state.nm.us; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534 & nAPP2111046250) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
7-19S-25E; Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534 & nAPP2111046250

Sampling will begin at 7:00 a.m. on Monday, May 23, 2022 and will be continuous through Friday, May 27, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

Released to Imaging: 9/3/2025 1:02:09 PM
Received by OCD: 6/19/2025 8:41:42 AM

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, May 25, 2022 3:59 PM
To: Robert.Hamlet@state.nm.us; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Jennifer.Nobui@state.nm.us; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
7-19S-25E; Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 7:00 a.m. on Tuesday, May 31, 2022 and continuous through Friday, June 3, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

From: Tina Huerta
Sent: Thursday, June 2, 2022 8:56 AM
To: Alan & Cheryl ' <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
7-19S-25E; Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 7:00 a.m. on Monday, June 6, 2022 and continuous through Friday, June 10, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources

Artesia Division

Released to Imaging: 9/3/2025 12:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, June 9, 2022 10:14 AM
To: Ian & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
7-19S-25E; Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 7:00 a.m. on Monday, June 13, 2022 and continue through Friday, June 17, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources

Artesia Division

Released to Imaging: 9/3/2025 3:30:29 PM
Received by OCD: 6/19/2025 8:41:42 AM

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, June 16, 2022 9:50 AM
To: Ian & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
P-7-19S-25E; Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 10:00 a.m. on Monday, June 20, 2022 through Friday, June 24, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources

Artesia Division

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, June 29, 2022 4:24 PM
To: [illegible]n & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
P-7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 7:00 a.m. on Tuesday, July 5, 2022 and continue through Friday, July 8, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Thursday, July 7, 2022 9:10 AM
To: Robert.Hamlet@state.nm.us; mike.bratcher@state.nm.us; Jennifer.Nobui@state.nm.us; jocelyn.harimon@state.nm.us; ahowell@pvtn.net; austin@atkinseng.com
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD #3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling notification

Good morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD #3
7-19S-25E; Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 8:00a.m on Monday, July 11, 2022 and continue through Friday, July 15, 2022.

Thank you,

Miriam Morales

Released to Imaging: 9/3/2025 1:40:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, July 21, 2022 1:23 PM
To: Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 1:00 p.m. on Monday, July 25, 2022 and continue through Friday, July 29, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources

Artesia Division

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, July 27, 2022 3:23 PM
To: Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
P-7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 7:00 a.m. on Monday, August 1, 2022 and continue through Friday, August 5, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources

Artesia Division

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, August 4, 2022 7:18 AM
To: Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
P-7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 7:00 a.m. on Monday, August 8, 2022 and continue through Friday, August 12, 2022.

***

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, August 10, 2022 3:35 PM
To: Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
P-7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 7:00 a.m. on Monday, August 15, 2022 and continue through Friday, August 19, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources

Artesia Division

From: Tina Huerta
Sent: Thursday, August 18, 2022 10:31 AM
To: Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 9:15 a.m. on Monday, August 22, 2022 and continue through Friday, August 26, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, September 1, 2022 9:16 AM
To: Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; Terrence Gant <Terry_Gant@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
P-7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 7:00 a.m. on Tuesday, September 6, 2022 and continue through Friday, September 9, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources

Artesia Division

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, March 5, 2024 10:31 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 320206

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 03/11/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle
575-703-6537
chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, April 15, 2024 10:40 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 333224

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 04/17/2024 @ 09:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle
575-703-6537
chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, May 3, 2024 10:21 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 340618

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC).

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 05/08/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, May 14, 2024 9:04 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 344041

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 05/16/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, May 21, 2024 10:31 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 346200

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111048250.

The sampling event is expected to take place:

When: 05/24/2024 @ 07:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, July 9, 2024 10:45 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 362144

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 07/12/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, July 30, 2024 1:00 PM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 368438

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To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 08/02/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Date: August 9, 2024 at 8:58:55 AM CDT
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 372166

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To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 08/13/2024 @ 08:00
Where: P-07-19S-26E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, August 27, 2024 10:41 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 378268

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To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 08/29/2024 @ 11:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, September 12, 2024 10:38 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 382985

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To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 09/17/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, October 1, 2024 9:12 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 388652

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To whom it may concern (c/o James Kennedy for EOG RESOURCES NC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 10/03/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, October 3, 2024 10:10 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 389591

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To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 10/08/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, October 14, 2024 3:42 PM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 392515

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To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 10/17/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle 575-703-6537

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, November 7, 2024 3:53 PM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 400505

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To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 11/12/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Will Kierdorf (512)335-1785

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, November 20, 2024 10:08 PM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 405418

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To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2111046250.

The sampling event is expected to take place:

When: 11/25/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Will Kierdorf 512-335-1785

Additional Instructions: Directions to site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

RANGER
ENVIRONMENTAL SERVICES, LLC

RECLAMATION REPORT
(VOLUME 3 OF 4)
ROY SWD #3

NAB1801936658, NAB1834454137, NAPP2111045260, & NAPP2123047534
UNIT P, SECTION 7, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.67059, -104.51773
RANGER REFERENCE NO. 5375

PREPARED FOR:

EOG RESOURCES, INC.
MIDLAND DIVISION
5509 CHAMPIONS DRIVE
MIDLAND, TEXAS 79706

PREPARED BY:

RANGER ENVIRONMENTAL SERVICES, LLC
P.O. BOX 201179
AUSTIN, TEXAS 78720

MAY 30, 2025

Patrick K. Finn, P.G. (TX)
Project Geoscientist

William Kierdorf, REM
Project Manager

APPENDIX D – NMOCD APPROVED SITE REMEDIATION AND CLOSURE REPORTS

D.2 - NMOCD INCIDENT #NAPP2123047534

RANGER
ENVIRONMENTAL SERVICES, LLC

SITE REMEDIATION AND CLOSURE REPORT

NORTHERN ON-PAD AREA

ROY SWD #3
NMOCD INCIDENT ID # NAPP2123047534
UNIT P, SECTION 7, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.67059, -104.51773

PREPARED FOR:

EOG RESOURCES, INC.
ARTESIA DIVISION
105 S 4TH STREET
ARTESIA, NEW MEXICO 88210

PREPARED BY:

RANGER ENVIRONMENTAL SERVICES, LLC
P.O. BOX 201179
AUSTIN, TEXAS 78720

JANUARY 14, 2025

Patrick K. Finn, P.G. (TX)
Project Geoscientist

William Kierdorf, REM
Project Manager

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- Area Map
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- Vertical Assessment Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data
- Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

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- Attachment 1 – Soil Boring Logs
- Attachment 2 – Photographic Documentation
- Attachment 3 – Laboratory Analytical Reports
- Attachment 4 – NMOCD Correspondence

RANGER
ENVIRONMENTAL SERVICES, LLC

SITE REMEDIATION AND CLOSURE REPORT
NORTHERN ON-PAD AREA

ROY SWD #3
NMOCD INCIDENT # NAPP NAPP2123047534
UNIT P, SECTION 7, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.67059, -104.51773

1.0 SITE LOCATION AND BACKGROUND

The Roy SWD #3 (Site) is located on private land, approximately 13.6 miles southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit P, Section 7, T19S-R25E at GPS coordinates 32.67059, -104.51773. The site was operated by EOG Resources, Inc. (EOG), and historically consisted of a saltwater disposal well, a tank battery with an earthen containment berm, pump houses and associated equipment. Operations at the site were once conducted within the full extent of the facility pad; however, a reduction of operations at the Site left the southern approximate half of the facility pad unused. Prior to the reporting of the subject incident detailed below, reclamation efforts to decommission the southern portion of the pad were completed. In April and May of 2022, plugging and abandonment of the on-site disposal well was completed. Additionally, the on-site tank battery and associated equipment has been taken out-of-service, decommissioned, and removed from the Site.

On August 16, 2021, an estimated release of 25 barrels of produced water was discovered on the northern portion of the well pad. The released fluids were noted to originate from the injection line which ran from the pump house to the Roy SWD #3 injection well. Upon discovery, immediate actions were taken to halt the release of fluids and fluid recovery efforts were initiated. An emergency vacuum truck was dispatched to the location which successfully recovered approximately 20 bbls of the released fluids. Operations were immediately undertaken to begin excavating visually impacted soils.

Due to the estimated volume released, a Major Release Notification was submitted to NMOCD through email within the required 24-hour period from time of discovery (NMOCD Incident # nAPP2123047534). This was followed by a Form C-141 on August 19, 2021. Since the line was not metered, the incident was reported as an unknown release volume. EOG subsequently engaged Ranger Environmental Services, LLC (Ranger) to assist in the site assessment and remediation efforts.

It should be noted that multiple NMOCD incidents are present at the Site. Two incidents (NMOCD Incident #s nAB1801936658 & nAB1834454137) are associated with the former tank battery area located in the northern portion of the former facility. An additional NMOCD reportable incident (nAPP2111045250) is located to the south and southeast of the subject incident. Documentation of the impacts and completed remedial efforts in these areas will be submitted under separate cover. The following report is associated with the subject Incident ID #nAPP2123047534. The attached "*Remediation Area Overview Map*" illustrates the various incident areas at the Site.

As stated above, removal of visually impacted soils was initiated upon discovery of the release. These initial removal efforts included excavation in the vicinity of the release location and wellhead ("Wellhead Area") to depths up to approximately 12 feet below ground surface (bgs). Excavation of the observed surficial impacts observed on the Roy SWD #3 well/facility pad ("Pad Area") was completed to depths ranging from six inches to one foot below ground surface (bgs). These two areas associated with the subject Incident ID #nAPP2123047534 are also illustrated on the attached "*Remediation Area Overview Map.*"

Due to status of the Roy SWD #3 injection well as the primary takeaway source for active adjacent wells in the area, the removal activities included the excavation of the failed injection line with a goal of replacing the line in order to bring the Roy SWD #3 well back to active status. Due to the level of impacts in the original pathway of the injection line, the rerouting was completed to the east of the release location and wellhead area.

Due to the extent of the soil impacts, delineation activities were determined to be necessary in order to develop a remedial strategy for the Site. Since full delineation of the impacts could not be completed in the required regulatory timeframe, an extension request for completion of a site characterization/remediation plan was submitted to the NMOCD on November 16, 2021. On November 18, 2021, the NMOCD approved of the extension request allowing until February 14, 2022 for the submittal of the site characterization and remediation plan.

It was ultimately determined that a core rig would be necessary to complete the vertical delineation of the soil impacts in the wellhead area. In addition, a decision was made to schedule the plugging and abandonment (P&A) of the Roy SWD #3 well; however, due to the extent of the completed remedial excavation activities, access to the well to allow for plugging operations was not possible and posed a safety risk. Since the soil delineation activities could not be completed by the updated regulatory target date, and due to the change of plans to P&A the Roy SWD #3 well, a second extension request was submitted to the NMOCD on February 14, 2022. On February 15, 2022, the NMOCD denied the extension request. As such, a Ranger prepared *Site Characterization and Proposed Remediation Plan* ("Remediation Plan"), dated March 11, 2022, was subsequently submitted to the NMOCD.

The Remediation Plan included details of the release response efforts completed to date as well as the injection line reroute efforts. The plan included proposed backfilling and geosynthetic clay liner (GCL) installation to allow for the P&A of the Roy SWD #3 well and the completion of the vertical soil delineation activities. Additionally, the Remediation Plan presented a strategy of limited removal soil removal with utilization of a GCL for the remaining soil impacts associated with the incident. On September 13, 2022, the NMOCD conditionally approved the Remediation Plan. The September 13, 2022 NMOCD email stated (in part):

> "*The Remediation Plan is Conditionally Approved. The geosynthetic clay liner at 6 feet below ground surface is approved under the circumstance that as much contaminated soil is safely removed as possible. The excavations should be backfilled to 6 feet below surface with clean material, liner installed, and then backfilled to surface with clean material."*

Since the NMOCD response to the Remediation Plan was not received until September 2022, a decision was made to move forward and implement the proposed activities to allow for the P&A of the Roy SWD #3 well and the completion of the vertical soil delineation activities. The well plugging activities were completed in April 2022. Upon completion of the P&A operations, the

vertical soil delineation activities and continued remediation of the remaining impacted areas were completed.

During the performance of the remaining site remediation activities, concern regarding completion of the approved limited soil removal and GCL installation arose. Due to unclear guidance regarding cleanup goals at the Site, and if the completed activities would allow for incident closure the Site remediation strategy was altered. Based on this concern, the remedial goal for the remaining soil impacts in the Pad Area was the attainment of the 19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW ≤50'), as detailed below.

The following *Site Remediation and Closure Report* has been prepared to provide the details of the completed site activities. A *Topographic Map* and aerial *Area Map* depicting the Site location and surrounding areas are attached. As summarized above, a *Remediation Area Overview Map* is also attached which illustrates the subject remediation areas and additional incident areas at the Site.

2.0 SITE REMEDIATION

2.1 Roy SWD #3 P&A and Facility Decommissioning

As detailed in the Remediation Plan, to allow P&A operations of the Roy SWD #3 Well, backfill of the excavated area was necessary. In April 2022, the excavation in the Wellhead Area was prepared, a GCL was installed in the base of the excavated area, and the area was backfilled. The excavation backfill process was completed to grade with clean fill material in accordance with NMAC 19.15.29.13.

Upon completion of the GCL installation and backfill process, plugging operations of the Roy SWD #3 were initiated with P&A operations concluding on April 28, 2022. In April and May 2022, the remaining on-site equipment, including the tank battery, were decommissioned and removed from the Site. This allowed for the unhindered completion of the soil delineation activities and the soil removal activities in other areas of the Site.

2.2 Vertical Delineation

Following completion of the well P&A and facility decommissioning operations, the needed vertical soil delineation activities were completed. During May 18-19, 2022, Ranger personnel and HCI Drilling (HCI) conducted the vertical soil delineation activities at the Site. A total of five soil borings were installed and sampled.

Three of the soil borings (SB's 1-3) were completed in areas associated with the former tank battery (NMOCD incident #s nAB1801936658 & nAB1834454137) located to the north of the subject incident area. Details of the three borings associated with the tank battery area have been reported under separate letter and submitted under the applicable NMOCD incident numbers for the area. The remaining two soil borings (SB's 4-5) were completed in locations noted to be impacted by the subject release incident. Soil boring SB-4 was completed along the eastern pad boundary in an area observed to have surficial impacts during the discovery of the subject release. Soil boring SB-5 was completed in the excavated and backfilled Wellhead Area. The attached "*Soil Boring Location Map*" illustrates the soil boring locations.

During the soil boring installation process, soil samples were continuously collected and monitored. Each soil sample was inspected and described by the on-site Ranger field geologist. The soils were generally field screened at one-foot intervals with an organic vapor monitor (OVM) and field chloride titration kit. The lithologic descriptions, field chloride readings and OVM readings are presented on the attached soil boring logs.

At each boring location, soil samples were collected for laboratory analysis at various depths in order to adequately delineate the extent of impacts beyond the target 600 mg/Kg chloride concentration. Upon collection, the soil samples were submitted to Eurofins Albuquerque (formerly Hall Environmental Analysis Laboratory, Inc.) in Albuquerque, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and, total chloride using EPA Method 300. Copies of the laboratory analytical reports including chain-of-custody documentation are attached. Summary tables of the soil analytical results are provided in the *Vertical Delineation Soil Sample BTEX, TPH & Chloride Analytical Data* summary table included in the *Tables* section of this report.

The vertical delineation soil boring results documented successful delineation of the soil chloride impacts to levels within the target 600 mg/Kg chloride criteria at depths of approximately 20 feet in SB-4 and 39' in SB-5. All soil BTEX and TPH concentrations were found to be nondetectable. Groundwater was not encountered in the completed borings. As summarized in the Remediation Plan, the depth to water for the wells located closest to the subject Site ranged between 72-97 feet bgs. During the previously completed delineation efforts in the tank battery area, no groundwater was reported to have been encountered at depths of up to 75 feet bgs. Based upon the above, the vertical delineation activities documented that the soil chloride impacts do not appear to pose a threat to the underlying groundwater.

2.3 NMOCD Meetings

During the course of this project, numerous teleconference meetings were held between NMOCD, EOG, and Ranger personnel to discuss the on-going efforts at the Site. During a meeting on November 29, 2022, specifics of the completed efforts in Wellhead Area were discussed in detail. After review of the completed activities in the Wellhead Area, NMOCD representatives confirmed that the actions undertaken in the area were deemed acceptable and no further action was necessary in the area. As requested by the participating NMOCD representatives, a meeting summary was subsequently prepared by Ranger and emailed to the NMOCD on December 5, 2022. The meeting summary is presented below:

> *"Based upon the results of the conference call, the NMOCD was generally satisfied with the ongoing activities in this area as well as confirming that the previous remediation activities around the wellhead including liner placement are complete with no further actions to be completed where the confirmation samples were below closure criteria or in the lined area. It was discussed that the remediation approach for this area is similar to the eastern off-pad area with affected soil areas being excavated to minimum depths of 6 feet bgs and any areas remaining in exceedance of the closure criteria being covered with a GCL liner. The only possible exception to this would be that if any remaining soils below 6 feet bgs are documented to contain chloride concentrations in excess of 10,000 mg/Kg, then this will be discussed with the NMOCD prior to liner placement to determine whether attempts should be made to further excavate in these areas until soils with lower chloride concentrations are reached. Vertical delineation of impacts in the northern on-pad area will be conducted similarly to the eastern off-pad area."*

The NMOCD replied via email on January 24, 2023 confirming that Ranger's meeting summary was accurate. Copies of Ranger's meeting summary email and the subsequent NMOCD response are attached.

2.4 Closure Criteria

Based upon the site characterization details[1] provided in the March 11, 2022 *Remediation Plan*, and the concerns of obtaining incident closure, the remaining remedial efforts at the Site were conducted in order to attain the Table 1 19.15.29.12 NMAC (groundwater ≤50' feet) criteria (Table 1 Criteria) and did not include utilization of a GCL. Additionally, the remediation activities were completed to bring the surface to four-foot depth interval into compliance with the Restoration, Reclamation and Re-Vegetation criteria (Reclamation Criteria) detailed in 19.15.29.13 NMAC. The NMAC 19.15.29 criteria is detailed below:

REGULATORY STANDARD	CHLORIDE	TPH (GRO+DRO +MRO)	BTEX	BENZENE
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW ≤50') & 19.15.29.13 NMAC Restoration, Reclamation and Re-Vegetation (Soils 0'-4')	600	100[2]	50[2]	10[2]

All Values Presented in Parts Per Million (mg/Kg)

1. *Full site characterization details are included in the Site Characterization and Proposed Remediation Plan, dated March 11, 2022.*
2. *Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of Digital C-141 and the release rule (19.15.29 NMAC) dated December 1, 2023.*

2.5 Impacted Soil Removal and Remediation Summary

From September 2022 to May 2024, continued soil removal operations were completed in the remaining impacted Pad Area. Due to the size of the affected Pad Area, and for logistical reasons, the Pad Area was subdivided into three sub-areas dubbed the "Eastern," "Middle," and "Southern" Pad Areas. These areas are illustrated on the attached figure titled "*Final Excavation Area and Confirmation Sample Location Map (Pad Area)*." The Wellhead Area is illustrated on the attached figure titled "*Final Excavation Area and Confirmation Sample Location Map (Wellhead Area)*." This figure also illustrates the area where the GCL liner was installed within the excavated area. It should be noted that during the performance of the site remedial operations, additional soil impacts were encountered that appeared to be associated with historic site operations. These impacts were addressed in conjunction with the remedial efforts for the subject release incident.

Field readings were continuously collected throughout the excavation process to guide the horizontal and vertical extents of the excavation and qualitatively assess the cleanup progress. The field screening activities conducted by Ranger personnel during the soil excavation process involved the usage of an organic vapor monitor (OVM) and field chloride titration kit to assist in guiding the excavation to appropriate boundaries. Upon reaching boundaries in an area which appeared to have attained the site closure criteria based upon the field screening results, cleanup confirmation soil samples were then collected for laboratory analysis in accordance with the

approved Remediation Plan. Prior to each cleanup confirmation soil sampling event, appropriate notice was provided to the NMOCD in accordance with NMAC 19.15.29.12 (D). Copies of the notifications are attached.

Numerous cleanup confirmation soil sampling events were ultimately conducted to verify the field readings and confirm whether or not the site closure criteria had been attained. In the event that the cleanup confirmation soil sampling results indicated that the site closure criteria had not been attained, then additional over-excavation and re-sampling of those areas was conducted.

The cleanup confirmation soil samples were collected from the sidewalls and base of the excavated areas in accordance with NMAC 19.15.29.12 Subsection D as five-point composite samples representative of no more than 200 square feet. The samples were collected and managed using standard QA/QC and chain-of-custody procedures. Ranger personnel wore new nitrile gloves while handling each sample in order to prevent cross-contamination of samples.

The collected soil samples were containerized in sterile, laboratory-suppled containers and were subsequently sealed in one or more zip lock bags and stored in a sample shuttle containing ice until arrival at the laboratory for chemical analysis. All sample containers were labeled with the project name, sample identification, date and time of sample collection, and samplers' initials. Chain-of-custody forms were completed to document sample transport to the analytical laboratory.

Upon collection, the soil samples were submitted to Eurofins Albuquerque (formerly Hall Environmental Analysis Laboratory, Inc.) in Albuquerque, New Mexico for analysis of TPH, BTEX, and total chloride using the aforementioned laboratory methods. Copies of the laboratory analytical reports including chain-of-custody documentation are attached. Summary tables of the soil analytical results are provided in the *Tables* section of this report. Any results presented with a "strikethrough" indicate that those sample areas were further over-excavated and resampled.

2.6 Final Excavation and Remediation Area Status

Copies of the laboratory analytical reports and chain-of-custody documentation for the cleanup confirmation soil samples are attached. Analytical data summary tables are also attached which provide a summary of the cleanup confirmation soil sample laboratory analytical results. In summary, the final cleanup confirmation soil sample results documented attainment of the Table 1 Criteria (GW ≤50') and Reclamation Criteria in all excavation areas located outside of the area where the GCL liner had been installed.

The final Wellhead Area excavation measured approximately 88 feet by 84 feet and was completed to depths ranging from approximately four to 12 feet bgs. The attached figure titled "*Final Excavation Area and Confirmation Sample Location Map (Wellhead Area)"* depicts the completed excavation area, confirmation sample locations, and GCL liner installation area.

The final excavation associated with the Pad Area was irregularly shaped and had maximum dimensions of approximately 205 feet by 205 feet and was completed to depths ranging from six feet to 15 feet bgs. The attached figure titled "*Final Excavation Area and Confirmation Sample Location Map (Pad Area)"* depicts the completed excavation boundaries and locations of the final cleanup confirmation soil samples for the Pad Area.

2.7 Waste Disposal

All soils generated during the remedial excavation activities were transported to disposal at either the Lea Land disposal facility in Eddy County, New Mexico or the Gandy Marley disposal facility located in Chavez County, New Mexico.

3.0 SITE CLOSURE

3.1 Site Completion & Backfill

As detailed above, installation of the GCL liner and backfilling of the "Wellhead Area" excavation was completed in April 2022. Backfilling of the "Pad Area" was completed upon confirmation that the Table 1 Criteria (GW ≤50') and Reclamation Criteria had been achieved. All areas were backfilled with clean fill material in accordance with NMAC 19.15.29.12 and NMAC 19.15.29.13.

3.2 Site Revegetation & Reclamation

As the Site is no longer active, revegetation and reclamation efforts will be completed in accordance with NMAC 19.15.29.13. Full details of the Site revegetation and reclamation efforts will be submitted in a subsequent Site Reclamation Report.

3.3 Closure Request

Based on the completed site remediation and cleanup confirmation soil sampling activities, the site has been properly addressed pursuant to NMAC 19.15.29 and EOG respectfully requests closure of the incident.

FIGURES

Topographic Map

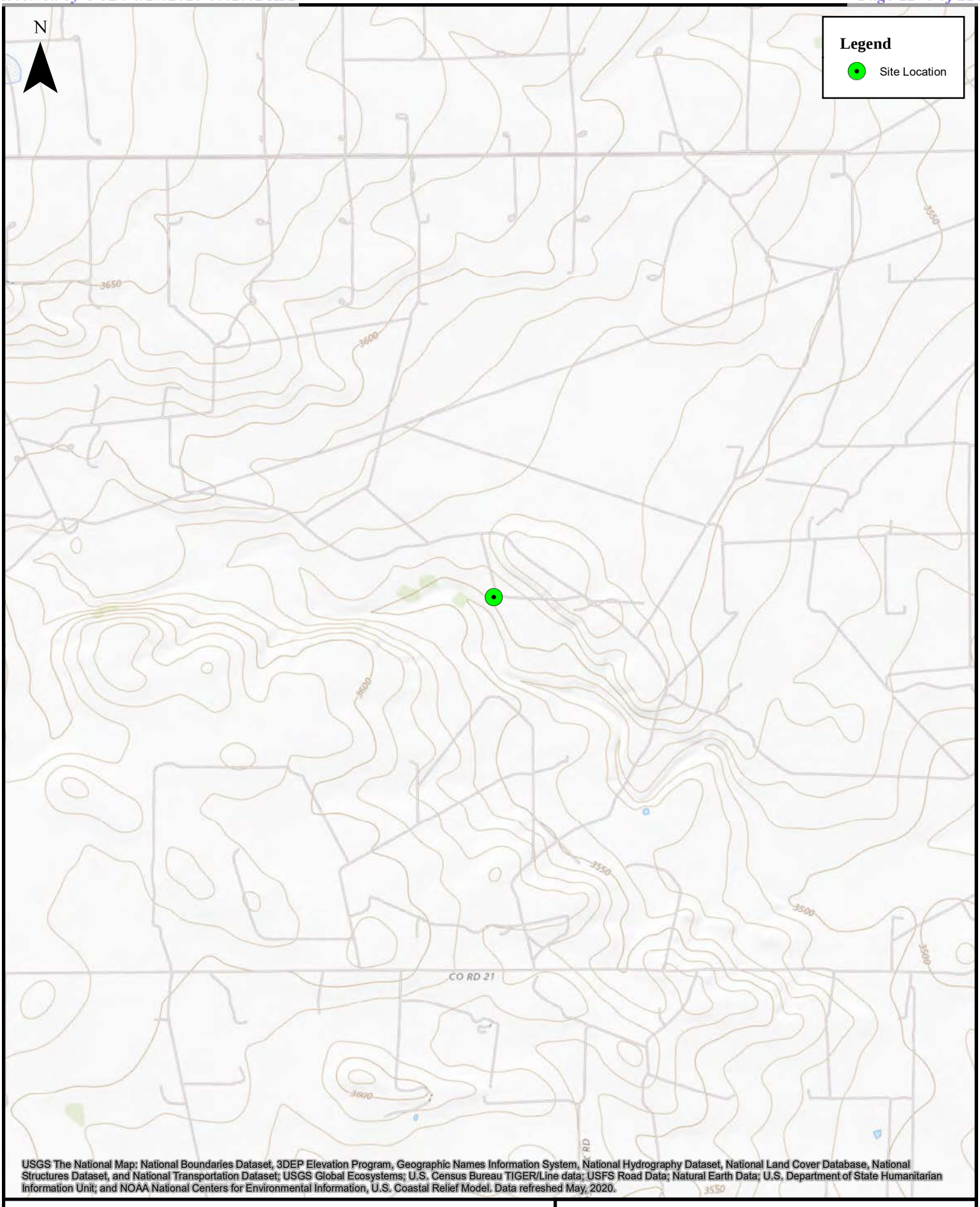
Area Map

Remediation Area Overview Map (nAPP2123047534)

Soil Boring Location Map

Final Excavation Area and Confirmation Sample Location Map (Wellhead Area)

Final Excavation Area and Confirmation Sample Location Map (Pad Areas)

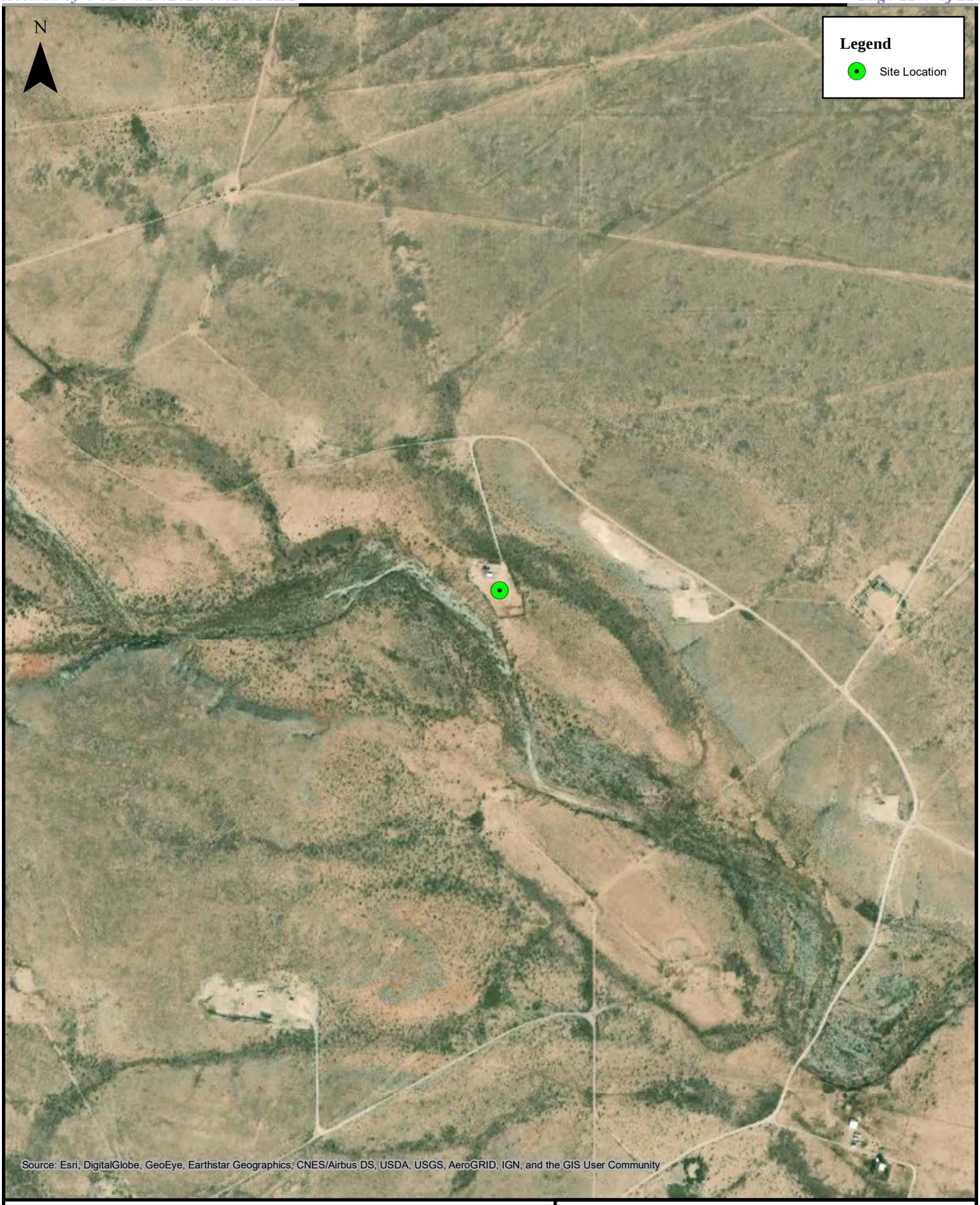


RANGER ENVIRONMENTAL SERVICES, LLC

0 600 1,200 2,400 3,600 4,800 Feet

1:24,000

Topographic Map
Roy SWD #3
EOG Resources, Inc.

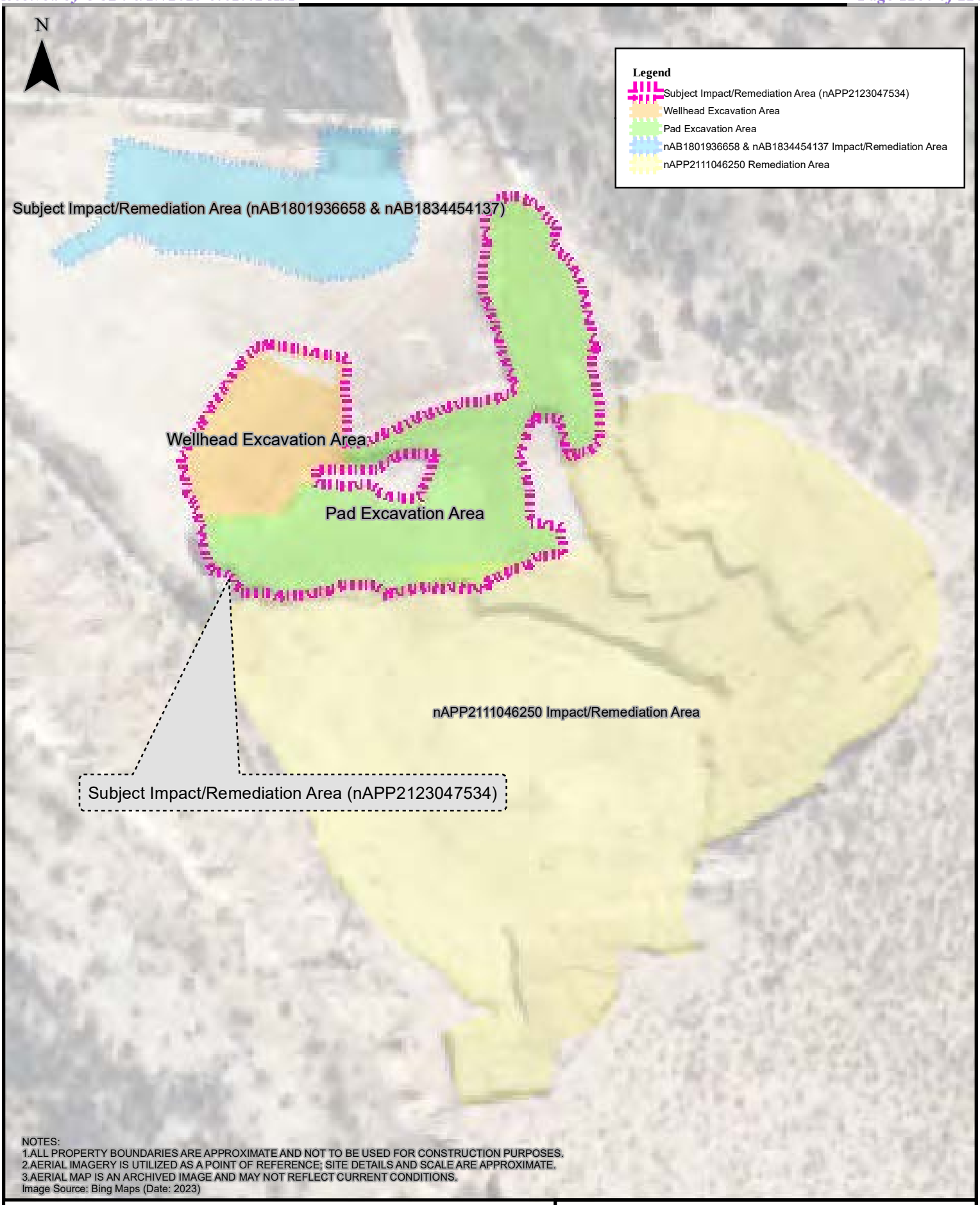


RANGER ENVIRONMENTAL SERVICES, LLC

0 250 500 1,000 1,500 2,000 Feet

1:10,000

Area Map
Roy SWD #3
EOG Resources, Inc.



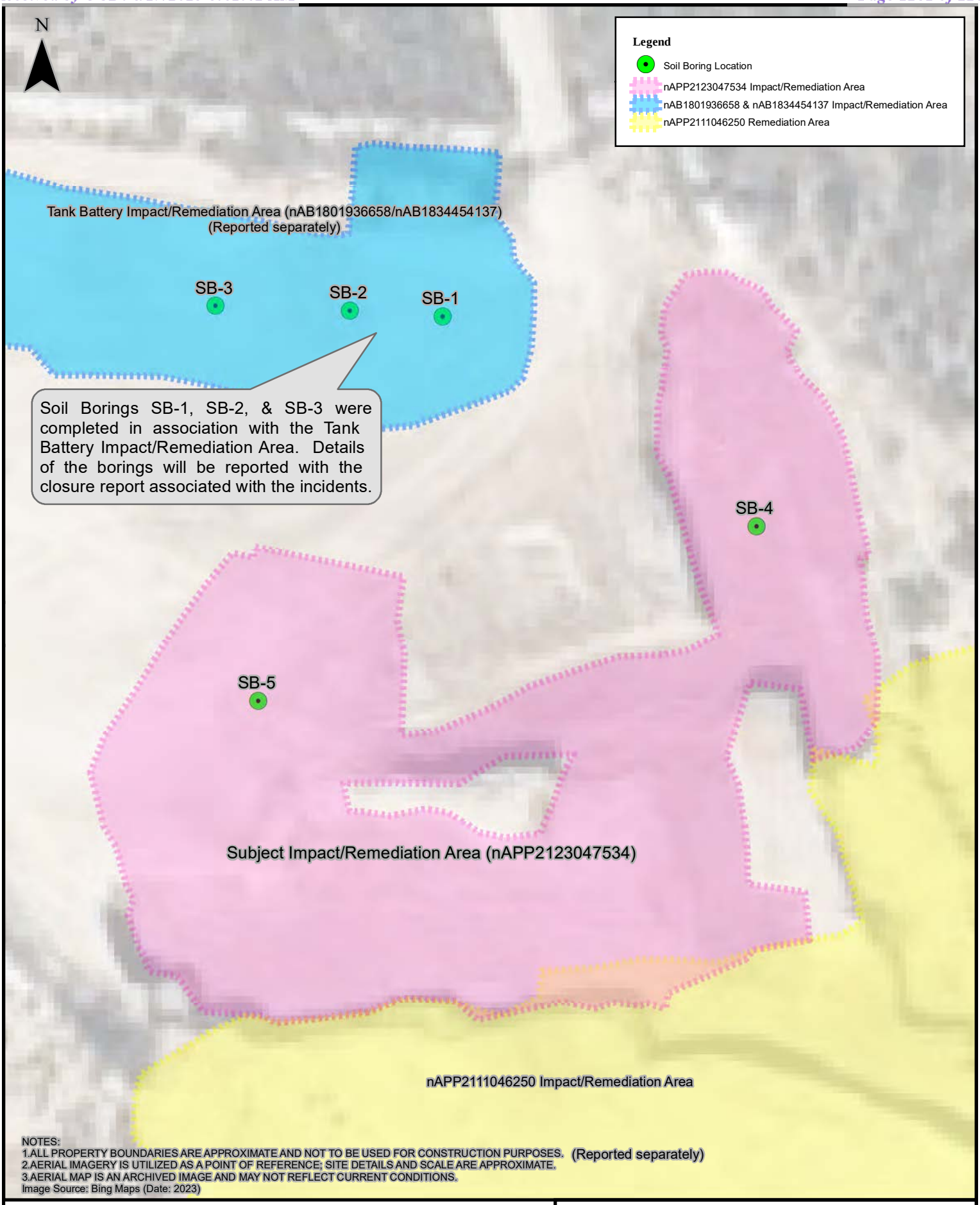
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Bing Maps (Date: 2023)

RANGER ENVIRONMENTAL SERVICES, LLC

0 12.5 25 50 75 100 Feet

1:750

Remediation Area Overview Map
(nAPP2123047534)
Roy SWD #3
EOG Resources, Inc.



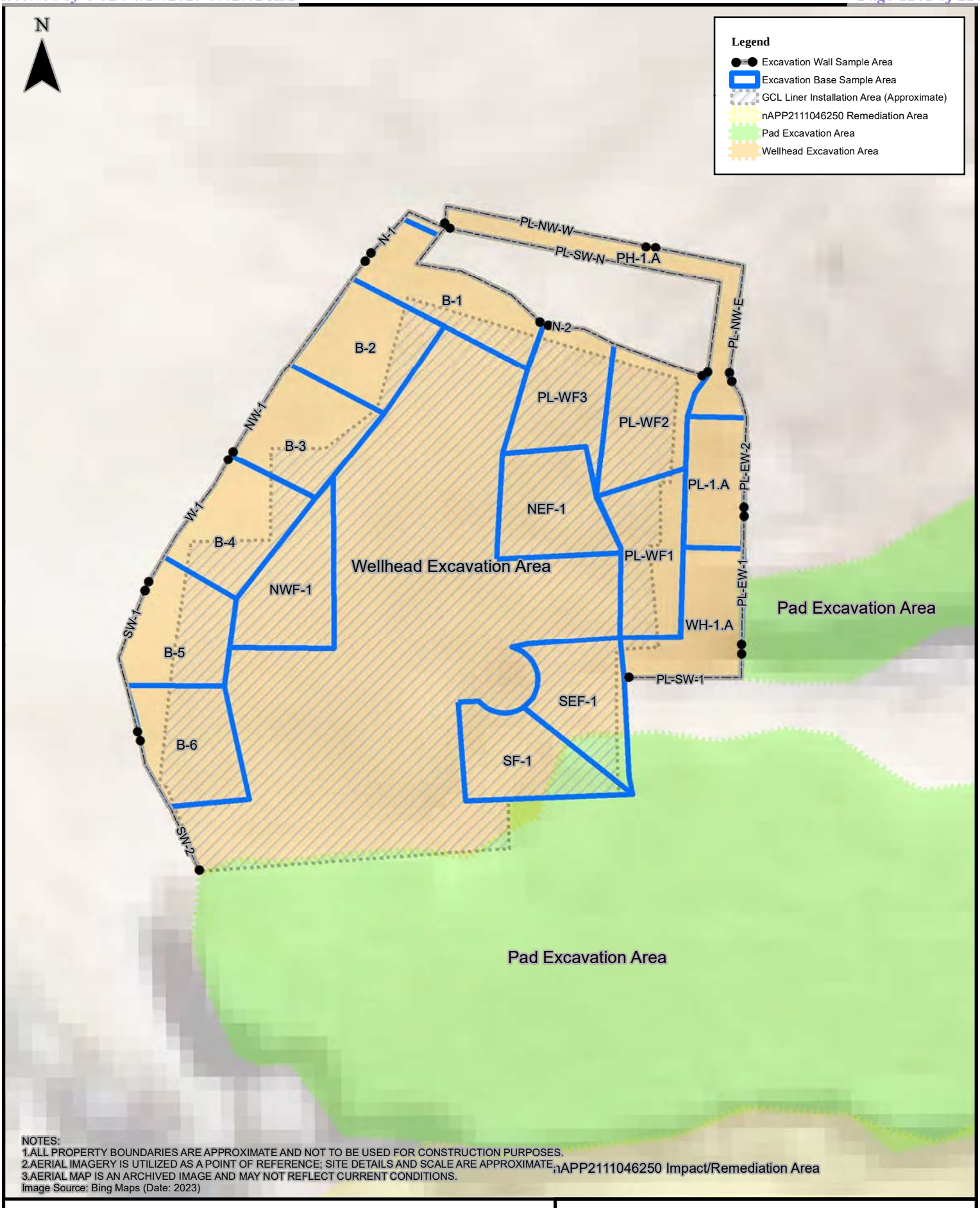
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES. (Reported separately)
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Bing Maps (Date: 2023)

RANGER ENVIRONMENTAL SERVICES, LLC

0 5 10 20 30 40 Feet

1:400

Soil Boring Location Map
Roy SWD #3
EOG Resources, Inc.

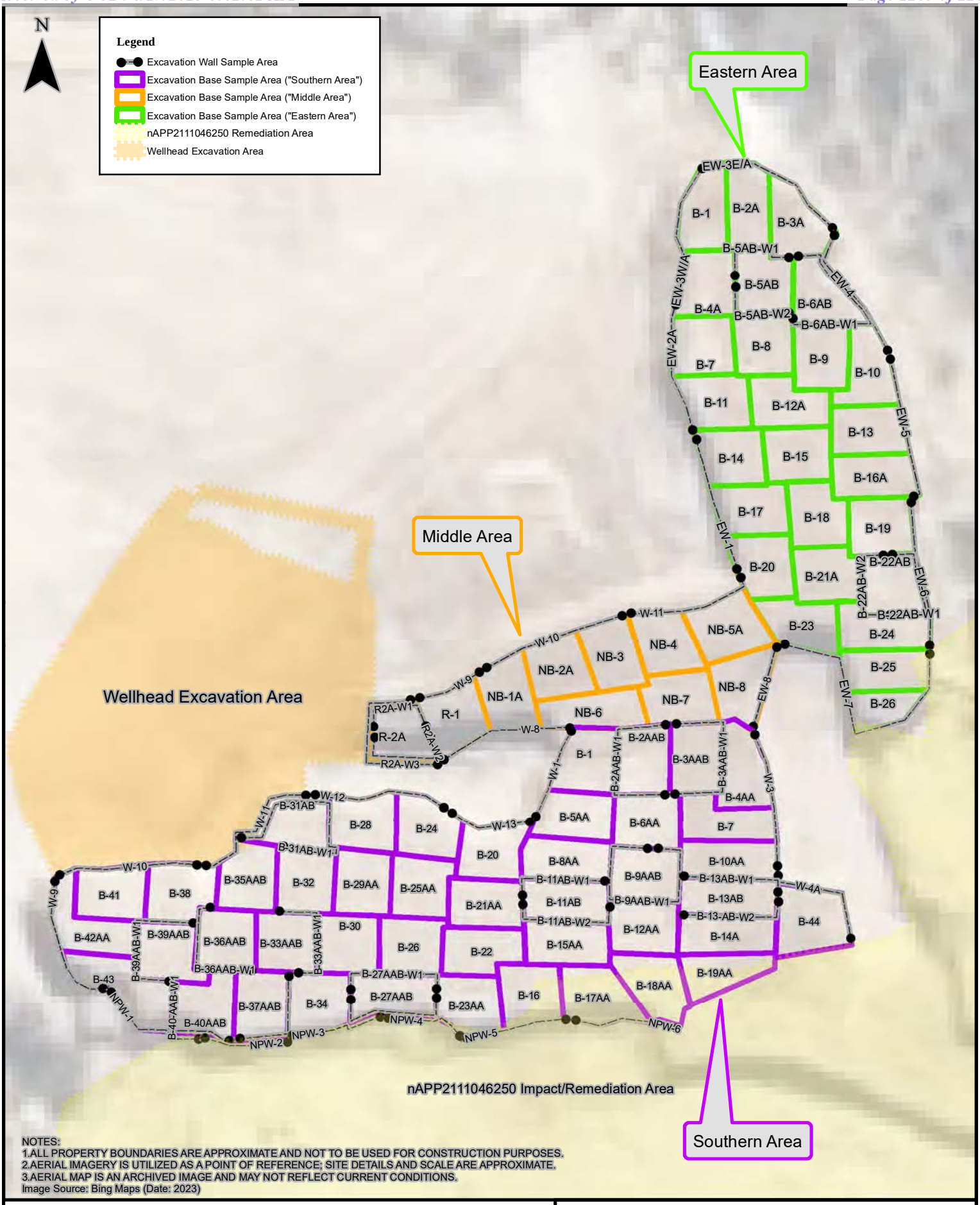


RANGER ENVIRONMENTAL SERVICES, LLC

0 3.75 7.5 15 22.5 30 Feet

1:200

Final Excavation Area and Confirmation Sample Location Map (Wellhead Area)
Roy SWD #3
EOG Resources, Inc.



NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Bing Maps (Date: 2023)

RANGER ENVIRONMENTAL SERVICES, LLC

0 5 10 20 30 40 Feet

1:341

Final Excavation Area and Confirmation Sample Location Map (Pad Area)
Roy SWD #3
EOG Resources, Inc.

TABLES

Vertical Assessment Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

VERTICAL DELINEATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
Borehole Sampling May 18 & 19, 2022													
SB1-23	5/18/2022	23'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.2	<46	<9.2	<46	**1,400**
SB1-38	5/18/2022	38'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.5	<47	<9.5	<47	**670**
SB1-39	5/18/2022	39'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<9.0	<45	<9.0	<45	590
SB1-40	5/18/2022	40'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.0	<45	<9.0	<45	260
SB2-29	5/18/2022	29'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<9.8	<49	<9.8	<49	**5,200**
SB2-47	5/18/2022	47'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<8.6	<43	<8.6	<43	**750**
SB2-48	5/18/2022	48'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.9	<49	<9.9	<49	310
SB2-49	5/18/2022	49'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.9	<49	<9.9	<49	300
SB2-50	5/18/2022	50'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.1	<45	<9.1	<45	500
SB3-4	5/18/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<10	<50	<10	<50	130
SB3-14	5/18/2022	14'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<10	<50	<10	<50	<60
SB3-29	5/18/2022	29'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<10	<50	<10	<50	63
SB3-30	5/18/2022	30'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.5	<47	<9.5	<47	<60
SB4-10	5/19/2022	10'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<47	<9.5	<47	**1,300**
SB4-15	5/19/2022	15'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.7	<49	<9.7	<49	**890**
SB4-20	5/19/2022	20'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.3	<46	<9.3	<46	250
SB4-30	5/19/2022	30'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<9.8	<49	<60
SB5-26	5/19/2022	26'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.8	<49	<9.8	<49	**4,300**
SB5-38	5/19/2022	38'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.3	<47	<9.3	<47	**1,100**
SB5-39	5/19/2022	39'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.7	<49	<9.7	<49	420
SB5-40	5/19/2022	40'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.4	<47	<9.4	<47	380
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW <50')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**---**	**100**	**600**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**10[3]**				**50[3]**					**100[3]**	**600**

Notes:

1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.
2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.
3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document *Procedures for the Implementation of the Spill Rule* (19.15.29 NMAC) dated September 6, 2019.
4. NA - Not Analyzed

NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
WELLHEAD EXCAVATION AREA SOIL SAMPLES													
Excavation Base Soil Samples													
B-1	8/24/2021	6'	<0.016	<0.033	<0.033	<0.065	<0.07	<3.3	<9.7	<48	<9.7	<48	370
B-2	8/24/2021	6'	<0.018	<0.036	<0.036	<0.072	<0.07	<3.6	<9.3	<46	<9.3	<46	280
B-3	8/24/2021	6'	<0.018	<0.037	<0.037	<0.074	<0.07	<3.7	<9.9	<49	<9.9	<49	450
B-4	8/24/2021	6'-10'	<0.026	<0.053	<0.053	<0.11	<0.11	<5.3	<9.5	<47	<9.5	<47	480
B-5	8/24/2021	6'-11'	<0.028	<0.057	<0.057	<0.11	<0.11	<5.7	<10	<50	<10	<50	350
B-6	8/24/2021	11'	<0.021	<0.041	<0.041	<0.083	<0.08	<4.1	<9.7	<49	<9.7	<49	360
PL-WF1	3/30/2022	10-12'	<0.017	<0.034	<0.034	<0.067	<0.07	<3.4	<9.7	<48	<9.7	<48	490
PL-WF2	3/31/2022	8'	<0.014	<0.028	<0.028	<0.057	<0.07	<2.8	<9.7	<49	<9.7	<49	320
PL-WF3	3/31/2022	8'	<0.014	<0.028	<0.028	<0.057	<0.07	<2.8	<9.7	<49	<9.7	<49	350
NEF-1	4/7/2022	8'	<0.019	<0.038	<0.038	<0.076	<0.08	<3.8	<9.8	<49	<9.8	<49	570
NWF-1	4/7/2022	10'-11'	<0.022	<0.045	<0.045	<0.090	<0.09	<4.5	<9.2	<46	<9.2	<46	420
SEF-1	4/7/2022	12'	<0.020	<0.040	<0.040	<0.080	<0.08	<4.0	<9.5	<48	<9.5	<48	91
SF-1	4/7/2022	10'-12'	<0.017	<0.034	<0.034	<0.068	<0.07	<3.4	<8.6	<43	<8.6	<43	<59
WH-1.A	9/21/2021	8'-10'	<0.020	<0.040	<0.040	<0.081	<0.08	<4.0	<9.8	<49	<9.8	<49	420
PL-1.A	9/21/2021	8'	<0.019	<0.038	<0.038	<0.076	<0.08	<3.8	<9.6	<48	<9.6	<48	500
PH-1.A	9/21/2021	4'	<0.021	<0.041	<0.041	<0.082	<0.08	<4.1	<10	<50	<10	<50	170
Excavation Wall Soil Samples													
N-1	8/24/2021	0'-6'	<0.019	<0.038	<0.038	<0.077	<0.08	<3.8	<9.6	<48	<9.6	<48	430
N-2	4/7/2022	0'-8'	<0.019	<0.037	<0.037	<0.074	<0.07	<3.7	<9.3	<46	<9.3	<46	220
NW-1	8/24/2021	0'-6'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<9.8	<49	<9.8	<49	270
W-1	8/24/2021	0'-10'	<0.019	<0.038	<0.038	<0.076	<0.08	<3.8	<9.6	<48	<9.6	<48	370
SW-1	8/24/2021	0'-11'	<0.020	<0.040	<0.040	<0.080	<0.08	<4.0	<9.6	<48	<9.6	<48	410
SW-2	8/24/2021	0'-11'	<0.021	<0.042	<0.042	<0.084	<0.08	<4.2	<9.6	<48	<9.6	<48	540
PL-SW-1	9/21/2021	0'-10'	<0.019	<0.037	<0.037	<0.074	<0.07	<3.7	<9.5	<47	<9.5	<47	510
PL-EW-1	9/21/2021	0'-9'	<0.019	<0.037	<0.037	<0.074	<0.07	<3.7	<10	<50	<10	<50	520
PL-EW-2	9/21/2021	0'-8'	<0.020	<0.039	<0.039	<0.078	<0.08	<3.9	<9.7	<48	<9.7	<48	460
~~PL-WW-1~~	~~9/21/2021~~	~~0'-10'~~	~~<0.020~~	~~<0.040~~	~~<0.040~~	~~<0.080~~	~~<0.08~~	~~<4.0~~	~~<9.7~~	~~<48~~	~~<9.7~~	~~<48~~	~~820~~
~~PL-WW-2~~	~~9/21/2021~~	~~0'-8'~~	~~<0.020~~	~~<0.041~~	~~<0.041~~	~~<0.081~~	~~<0.08~~	~~<4.1~~	~~<9.4~~	~~<47~~	~~<9.4~~	~~<47~~	~~640~~
PL-NW-E	9/21/2021	0'-4'	<0.019	<0.037	<0.037	<0.075	<0.07	<3.7	<9.3	<46	<9.3	<46	490
PL-NW-W	9/21/2021	0'-4'	<0.018	<0.035	<0.035	<0.071	<0.07	<3.5	<9.7	<49	<9.7	<49	<60
PL-SW-N	9/21/2021	0'-4'	<0.020	<0.040	<0.040	<0.080	<0.08	<4.0	<9.8	<49	<9.8	<49	190

NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
EASTERN PAD AREA SOIL SAMPLES													
Excavation Base Soil Samples													
B-1	10/14/2022	6'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<48	<14	<48	92
~~B-2~~	~~10/14/2022~~	~~6'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.095~~	~~<0.09~~	~~<4.7~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	**~~2,400~~**
B-2A	11/17/2022	6-10'	<0.00024	<0.00049	<0.00049	<0.00098	<0.00098	<0.049	<14	<47	<14	<47	330
~~B-3~~	~~10/14/2022~~	~~6'~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.092~~	~~<0.09~~	~~<4.6~~	~~<13~~	~~<45~~	~~<13~~	~~<45~~	**~~3,600~~**
B-3A	11/17/2022	10'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<49	<15	<49	250
~~B-4~~	~~10/14/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<48~~	~~<15~~	~~<48~~	**~~1,000~~**
B-4A	11/17/2022	6-8'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<13	<45	<13	<45	300
~~B-5~~	~~10/14/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	**~~3,000~~**
~~B-5A~~	~~11/17/2022~~	~~10'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	**~~720~~**
B-5AB	3/7/2024	13'	<0.023	<0.047	<0.047	<0.093	<0.10	<4.7	<9.6	<48	<9.6	<48	<60
~~B-6~~	~~10/14/2022~~	~~6'~~	~~<0.023~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.09~~	~~<4.7~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	**~~720~~**
~~B-6A~~	~~11/17/2022~~	~~10'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	**~~620~~**
B-6AB	3/7/2024	11'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<48	<9.5	<48	<60
B-7	10/14/2022	6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<46	<14	<46	210
B-8	10/14/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<50	<15	<50	150
B-9	10/14/2022	6'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<14	<47	<14	<47	140
B-10	10/14/2022	6'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<50	<15	<50	360
B-11	10/14/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<50	<15	<50	180
~~B-12~~	~~10/14/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<46~~	~~<14~~	~~<46~~	**~~1,300~~**
B-12A	11/16/2022	6-9'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<14	<47	<14	<47	420
B-13	10/14/2022	6'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<48	<14	<48	<61
B-14	10/14/2022	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<49	<15	<49	90
B-15	10/14/2022	6'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<48	<14	<48	160
~~B-16~~	~~10/14/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<46~~	~~<14~~	~~<46~~	**~~670~~**
B-16A	11/15/2022	6-8'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<15	<49	<15	<49	480
B-17	10/14/2022	6'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<46	<14	<46	<59
B-18	10/14/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<48	<14	<48	210
B-19	10/14/2022	6'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<14	<45	<14	<45	<60
B-20	10/14/2022	6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<47	<14	<47	110
~~B-21~~	~~10/14/2022~~	~~6'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.09~~	~~<4.7~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	**~~630~~**
B-21A	11/30/2022	6-10'	<0.023	<0.046	<0.046	<0.091	<0.09	<4.6	<14	<47	<14	<47	190
~~B-22~~	~~10/14/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<46~~	~~<14~~	~~<46~~	**~~1,600~~**
~~B-22A~~	~~11/21/2022~~	~~8'~~	~~<0.023~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.09~~	~~<4.7~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	**~~3,200~~**
B-22AB	3/7/2024	9'	<0.025	<0.050	<0.050	<0.099	<0.09	<5.0	<9.4	<47	<9.4	<47	75
B-23	10/14/2022	6'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<14	<47	<14	<47	87
B-24	10/14/2022	6'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<45	<14	<45	600
B-25	10/14/2022	6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<47	<14	<47	520
B-26	10/14/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<48	<14	<48	<60
Excavation Wall Soil Samples													
EW-1	10/12/2022	0-6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<47	<14	<47	70
~~EW-2~~	10/12/2022	0-6'	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	**~~620~~**
EW-2/A	11/1/2022	0'-7'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<50	<15	<50	170
~~EW-3E~~	10/13/2022	0'-6'	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	**~~850~~**
EW-3E/A	11/1/2022	0'-10'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<46	<14	<46	400
~~EW-3W~~	~~10/13/2022~~	0'-6'	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	**~~1,000~~**
EW-3W/A	11/1/2022	0'-8'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<15	<50	<15	<50	<60
EW-4	10/13/2022	0'-6'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<15	<49	<15	<49	<61
EW-5	10/12/2022	0-6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<48	<14	<48	<60
EW-6	10/12/2022	0-6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<14	<46	<14	<46	260
EW-7	10/12/2022	0-6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<45	<14	<45	210
EW-8	11/7/2022	0-6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<47	<14	<47	<60
B-5AB-W1	3/7/2024	10'-13'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.2	<46	<9.2	<46	81
B-5AB-W2	3/7/2024	6'-13'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.0	<45	<9.0	<45	330
B-6AB-W1	3/7/2024	6'-11'	<0.025	<0.050	<0.050	<0.099	<0.09	<5.0	<9.3	<46	<9.3	<46	68
B-22AB-W1	3/7/2024	6'-9'	<0.024	<0.048	<0.048	<0.097	<0.09	<4.8	<10	<50	<10	<50	280
B-22AB-W2	3/7/2024	6'-9'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.3	<47	<9.3	<47	140

NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
"MIDDLE" PAD AREA SOIL SAMPLES													
Excavation Base Soil Samples													
R-1	10/25/2022	0-6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<47	<14	<47	250
~~R-2~~	~~11/7/2022~~	~~0'-6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<45~~	~~<14~~	~~<45~~	~~630~~
R-2A	3/7/2024	11'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.9	<49	<9.9	<49	67
~~NB-1~~	~~10/25/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~1,500~~
NB-1A	11/16/2022	6'-7'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<49	<15	<49	450
~~NB-2~~	~~10/25/2022~~	~~6'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~860~~
NB-2A	11/15/2022	6-9'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<15	<49	<15	<49	530
NB-3	10/25/2022	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<49	<15	<49	410
NB-4	10/25/2022	6'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<48	<14	<48	60
~~NB-5~~	~~10/25/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~850~~
NB-5A	11/15/2022	6-8'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<14	<47	<14	<47	290
NB-6	10/25/2022	6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<48	<14	<48	64
NB-7	10/25/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<50	<15	<50	60
NB-8	10/25/2022	6'	<0.024	<0.047	<0.047	<0.095	<0.10	<4.7	<15	<49	<15	<49	220
Excavation Wall Soil Samples													
W-8	10/25/2022	0-6'	<0.024	<0.047	<0.047	<0.094	<0.10	<4.7	<14	<48	<14	<48	300
W-9	10/25/2022	0-6'	<0.024	<0.047	<0.047	<0.095	<0.10	<4.7	<14	<49	<14	<49	320
W-10	10/25/2022	0-6'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<49	<15	<49	270
W-11	10/25/2022	0-6'	<0.024	<0.047	<0.047	<0.094	<0.10	<4.7	<14	<46	<14	<46	260
R2A-W1	3/7/2024	6'-11'	<0.025	<0.050	<0.050	<0.10	<0.09	<5.0	<9.5	<48	<9.5	<48	69
R2A-W2	3/7/2024	6'-11'	<0.025	<0.049	<0.049	<0.099	<0.09	<4.9	<9.2	<46	<9.2	<46	<60
R2A-W3	4/17/2024	0'-6'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<8.9	<44	<8.9	<44	350

NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
"SOUTHERN" PAD AREA SOIL SAMPLES													
Excavation Base Soil Samples													
B-1	9/23/2022	6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<48	<15	<48	390
~~B-2~~	~~9/23/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<46~~	~~<14~~	~~<46~~	~~1,000~~
~~B-2AA~~	~~11/21/2022~~	~~10'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.09~~	~~<4.7~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~740~~
B-2AAB	3/7/2024	11'	<0.025	<0.050	<0.050	<0.10	<0.09	<5.0	<9.0	<45	<9.0	<45	300
~~B-3~~	~~9/23/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<46~~	~~<14~~	~~<46~~	~~1,200~~
~~B-3AA~~	~~11/21/2022~~	~~10'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.10~~	~~<5.0~~	~~<15~~	~~<48~~	~~<15~~	~~<48~~	~~840~~
B-3AAB	3/7/2024	15'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.8	<49	<9.8	<49	540
~~B-4~~	~~9/23/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~1,200~~
B-4AA	11/17/2022	6-8'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<14	<47	<14	<47	350
~~B-5~~	~~9/23/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~1,000~~
B-5AA	11/21/2022	6-10'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<14	<47	<14	<47	390
~~B-6~~	~~9/23/2022~~	~~6'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~950~~
B-6AA	11/30/2022	6-10'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<46	<14	<46	<60
B-7	9/23/2022	6'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<50	<15	<50	470
~~B-8~~	~~9/23/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~1,000~~
B-8AA	11/21/2022	6-10'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<14	<46	<14	<46	500
~~B-9~~	~~9/23/2022~~	~~6'~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.093~~	~~<0.09~~	~~<4.6~~	~~<14~~	~~<46~~	~~<14~~	~~<46~~	~~1,200~~
~~B-9AA~~	~~11/21/2022~~	~~10'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~990~~
B-9AAB	3/7/2024	11'	<0.024	<0.049	<0.049	<0.097	<0.09	<4.9	<9.9	<49	<9.9	<49	<60
~~B-10~~	~~9/23/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.095~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~1,000~~
B-10AA	11/21/2022	6-10'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<47	<14	<47	420
~~B-11~~	~~9/23/2022~~	~~6'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.095~~	~~<0.09~~	~~<4.7~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~680~~
~~B-11A~~	~~11/16/2022~~	~~10'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<48~~	~~<15~~	~~<48~~	~~710~~
B-11AB	3/7/2024	14'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<8.7	<43	<8.7	<43	<60
~~B-12~~	~~9/23/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~860~~
B-12AA	11/30/2022	8-10'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<15	<49	<15	<49	79
~~B-13~~	~~9/23/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~630~~
~~B-13A~~	~~11/15/2022~~	~~8'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~670~~
B-13AB	3/7/2024	9'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<9.3	<47	<9.3	<47	68
~~B-14~~	~~9/23/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~650~~
B-14A	11/15/2022	8'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<15	<50	370
~~B-15~~	~~9/23/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~1,000~~
B-15AA	11/22/2022	6-8'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<14	<48	<14	<48	230
B-16	9/23/2022	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<46	<14	<46	570
~~B-17~~	~~9/23/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.095~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~1,000~~
B-17AA	11/22/2022	6-8'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<15	<49	<15	<49	250
~~B-18~~	~~9/23/2022~~	~~6'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.095~~	~~<0.09~~	~~<4.7~~	~~<14~~	~~<46~~	~~<14~~	~~<46~~	~~1,300~~
B-18AA	11/22/2022	6-8'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<50	<15	<50	200
~~B-19~~	~~9/23/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~900~~
B-19AA	11/22/2022	6-8'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<47	<14	<47	330
B-20	10/4/2022	6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<47	<14	<47	400
~~B-21~~	~~10/4/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~970~~
B-21AA	11/22/2022	6-10'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<15	<50	<15	<50	280
B-22	10/4/2022	6'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<49	<15	<49	460
~~B-23~~	~~10/4/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~1,200~~
B-23AA	11/30/2022	6-10'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<46	<14	<46	560
B-24	10/4/2022	6'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<47	<14	<47	470
~~B-25~~	~~10/4/2022~~	~~6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.10~~	~~<5.0~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~990~~
B-25AA	11/22/2022	6-10'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<15	<48	<15	<48	490
B-26	10/4/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<50	<15	<50	450
~~B-27~~	~~10/4/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.10~~	~~<4.9~~	~~<13~~	~~<44~~	~~<13~~	~~<44~~	~~2,200~~
~~B-27AA~~	~~11/30/2022~~	~~10'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~930~~
B-27AAB	3/7/2024	14'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.4	<47	<9.4	<47	290
B-28	10/4/2022	6'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<48	<15	<48	460
~~B-29~~	~~10/4/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~1,100~~
B-29AA	11/22/2022	6-10'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<14	<48	<14	<48	360
B-30	10/4/2022	6'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<47	<14	<47	440
~~B-31~~	~~10/4/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~700~~
~~B-31A~~	~~11/16/2022~~	~~7'~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.093~~	~~<0.09~~	~~<4.6~~	~~190~~	~~360~~	~~190~~	~~550~~	~~640~~
B-31AB	3/7/2024	11'	<0.023	<0.046	<0.046	<0.093	<0.10	<4.6	<9.5	<47	<9.5	<47	400
B-32	10/4/2022	6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<15	<49	<15	<49	480
~~B-33~~	~~10/4/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~3,800~~
~~B-33AA~~	~~11/30/2022~~	~~10'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~890~~
B-33AAB	3/7/2024	11-14'	<0.025	<0.050	<0.050	<0.10	<0.09	<5.0	<9.9	<49	<9.9	<49	470
B-34	10/4/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<48	<14	<48	450
~~B-35~~	~~10/4/2022~~	~~6'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<13~~	~~<45~~	~~<13~~	~~<45~~	~~1,700~~
~~B-35AA~~	~~11/30/2022~~	~~10'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~1,000~~
B-35AAB	3/7/2024	14'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.5	<48	<9.5	<48	<60

NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
~~B-36~~	~~10/4/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~**2,300**~~
~~B-36AA~~	~~11/30/2022~~	~~10'~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.091~~	~~<0.09~~	~~<4.6~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~**1,300**~~
B-36AAB	3/7/2024	14'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.3	<47	<9.3	<47	280
~~B-37~~	~~10/4/2022~~	~~6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~**2,200**~~
~~B-37AA~~	~~11/30/2022~~	~~10'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.095~~	~~<0.09~~	~~<4.7~~	~~<14~~	~~<47~~	~~<14~~	~~<47~~	~~**680**~~
B-37AAB	3/7/2024	11'	<0.025	<0.050	<0.050	<0.099	<0.09	<5.0	<10	<50	<10	<50	72
B-38	10/4/2022	6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<13	<42	<13	<42	220
~~B-39~~	~~10/4/2022~~	~~6'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.095~~	~~<0.09~~	~~<4.7~~	~~<15~~	~~<49~~	~~<15~~	~~<49~~	~~**4,900**~~
~~B-39AA~~	~~11/30/2022~~	~~10'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<50~~	~~<15~~	~~<50~~	~~**1,400**~~
B-39AAB	3/7/2024	11'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<46	<9.1	<46	<60
~~B-40~~	~~10/4/2022~~	~~6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.095~~	~~<0.10~~	~~<4.8~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~**4,900**~~
~~B-40AA~~	~~11/30/2022~~	~~10'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<48~~	~~<14~~	~~<48~~	~~**1,400**~~
B-40AAB	3/7/2024	11'	<0.024	<0.049	<0.049	<0.097	<0.09	<4.9	<9.3	<46	<9.3	<47	<60
B-41	10/4/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<49	<15	<49	220
~~B-42~~	~~10/4/2022~~	~~6'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<46~~	~~<14~~	~~<46~~	~~**3,100**~~
B-42AA	11/30/2022	6-10'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<50	<15	<50	400
B-43	10/4/2022	6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<48	<15	<48	510
B-44	11/15/2022	6'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<14	<47	<14	<47	510
Excavation Wall Soil Samples													
W-1	9/23/2022	0'-6'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<14	<48	<48	<14	450
~~W-2~~	~~9/23/2022~~	~~0'-6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<15~~	~~<49~~	~~<49~~	~~<15~~	~~**850**~~
W-3	9/23/2022	0'-6'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<47	<47	<14	480
~~W-4~~	~~9/23/2022~~	~~0'-6'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.10~~	~~<4.9~~	~~<14~~	~~<46~~	~~<46~~	~~<14~~	~~**1,500**~~
W-4A	10/13/2022	0'-6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<50	<15	<50	340
~~W-5~~	~~9/23/2022~~	~~0'-6'~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.092~~	~~<0.09~~	~~<4.6~~	~~<14~~	~~<46~~	~~<46~~	~~<14~~	~~**890**~~
~~W-6~~	~~9/23/2022~~	~~0'-6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.10~~	~~<4.8~~	~~<13~~	~~<45~~	~~<45~~	~~<13~~	~~**2,000**~~
~~W-7~~	~~9/23/2022~~	~~0'-6'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~<14~~	~~<48~~	~~<48~~	~~<14~~	~~**1,700**~~
~~W-8~~	~~10/3/2022~~	~~0'-6'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.10~~	~~<4.9~~	~~<15~~	~~<48~~	~~<15~~	~~<48~~	~~**5,800**~~
W-9	10/3/2022	0'-6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<49	<15	<49	430
W-10	10/3/2022	0'-6'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<48	<14	<48	280
W-11	10/3/2022	0'-6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<13	<45	<13	<45	330
W-12	10/3/2022	0'-6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<46	<14	<46	240
W-13	10/3/2022	0'-6'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<50	<15	<50	300
NPW-1	5/24/2024	4'-11'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.7	<48	<9.7	<48	210
NPW-2	5/24/2024	4'-11'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.0	<45	<9.0	<45	210
NPW-3	5/24/2024	4'- 14'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<8.9	<45	<8.9	<45	210
NPW-4	5/24/2024	4'-14'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.6	<48	<9.6	<48	220
NPW-5	5/24/2024	4'-10'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<8.8	<44	<8.8	<44	200
NPW-6	5/24/2024	4'-8'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<8.5	<43	<8.5	<43	230
B-2AAB-W1	3/7/2024	6'-11'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.6	<43	<8.6	<43	440
B-3AAB-W1	3/7/2024	10'-15	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.7	<49	<9.7	<49	<60
B-9AAB-W1	3/7/2024	9'-11'	<0.025	<0.050	<0.050	<0.099	<0.09	<5.0	12	<45	12	12	<60
B-11AB-W1	3/7/2024	10'-14'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.3	<46	<9.3	<46	<60
B-11AB-W2	3/7/2024	8'-14'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.0	<45	<9.0	<45	250
B-13AB-W1	3/7/2024	6'-9'	<0.024	<0.048	<0.048	<0.095	<0.09	<4.8	<9.1	<45	<9.1	<45	<60
B-13AB-W2	3/7/2024	6'-9'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.3	<46	<9.3	<46	64
B-31AB-W1	3/7/2024	6'-11'	<0.025	<0.049	<0.049	<0.099	<0.09	<4.9	<10	<50	<10	<50	330
B-39AAB-W1	3/7/2024	6'-11'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.2	<46	<9.2	<46	340
B-40AAB-W1	3/7/2024	6'-11'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<9.4	<47	160
B-37AAB-W1	3/7/2024	6'-11'	<0.025	<0.050	<0.050	<0.099	<0.09	<5.0	<9.7	<48	<9.7	<48	73
B-27AAB-W1	3/7/2024	6'-14'	<0.023	<0.047	<0.047	<0.094	<0.10	<4.7	<9.0	<45	<9.0	<45	120
B-27AAB-W2	3/7/2024	6'-14'	<0.024	<0.048	<0.048	<0.097	<0.09	<4.8	<8.8	<44	<8.8	<44	130
B-36AAB-W1	3/7/2024	6'-14'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.5	<48	<9.5	<48	430
B-33AAB-W1	3/7/2024	6'-14'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.5	<47	<9.5	<47	93
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW <50')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**---**	**100**	**600**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**10[3]**				**50[3]**					**100[3]**	**600**

Notes:

1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.
2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.
3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document *Procedures for the Implementation of Digital C-141 and the release rule (19.15.29 NMAC)* dated December 1, 2023.
4. Strikethrough indicates that an area has been excavated.

NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

ATTACHMENT 1 – SOIL BORING LOGS

Ranger Environmental Services, Inc.
P.O. Box 201179,
Austin, Texas 78720
Phone: (512)335-1785
Fax: (512)335-0527

BORING NUMBER SB-4

PAGE 1 OF 1

CLIENT EOG Resources, Inc.
PROJECT NAME Roy SWD #3
PROJECT NUMBER 5375
PROJECT LOCATION Eddy County, New Mexico
DATE STARTED 5/19/22 **COMPLETED** 5/19/22
GROUND WATER LEVELS:
DRILLING CONTRACTOR HCI
AT TIME OF DRILLING ---
DRILLING METHOD Air Rotary
AFTER DRILLING ---
LOGGED BY Robert Martin **CHECKED BY** Patrick Finn
BTOC = Below Top Of Casing
GB = Grab Sample
GEO = Geotech Sample
GPS COORDINATES 32.670824°, -104.517308°

DEPTH (ft)	SOIL SAMPLE ANALYSIS	GROUNDWATER LEVELS (BTOC)	PID/FIELD CHLORIDE TITRATION (In ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Casing Type: 6.25" Diameter Temp. Well
			0 / -		(CL) Clayey Silt, dark brown, very well sorted, loamy, very fine grained, soft	
			0.7 / -			
			0 / -		3.0	
			0 / -		(ML) Clayey Silt, light brown, gray, well sorted, medium stiff to stiff, gypsum inclusions	
5			0 / -			
			0 / -			
			0 / -			
			0 / -			
			0 / -			
10	GB		0 / 1050			
			0 / -			
			0 / -			
			0 / -			
			0 / -			
15	GB		0 / 600			Bentonite
			0 / 600			
			0 / 450			
			0 / 300			
			0 / 300		19.0	
20	GB		0 / 300		(ML) Sandy Silt, light brown to olive gray, very well sorted, soft, very fine grained	
			0 / 300			
			0 / 300			
			0 / 300		23.0	
			0 / 300		(SM) Gravelly Silt, light brown to olive gray, moderately sorted, soft	
25			0 / 150			
			0 / 150			
			0 / 150			
			0 / 150			
			0 / 150			
30	GB		0 / 150		30.0	
					Bottom of borehole at 30.0 feet.	

ENVIRONMENTAL BH - GINT STD US.GDT - 8/19/22 08:38 - R:\DRAFTING FILES\GINT LOGS\5375 - ROY SWD #3 - BORING LOGS.GPJ

RANGER ENVIRONMENTAL SERVICES, INC.
Ranger Environmental Services, Inc.
P.O. Box 201179,
Austin, Texas 78720
Phone: (512)335-1785
Fax: (512)335-0527

BORING NUMBER SB-5

CLIENT EOG Resources, Inc.
PROJECT NAME Roy SWD #3
PROJECT NUMBER 5375
PROJECT LOCATION Eddy County, New Mexico
DATE STARTED 5/19/22 **COMPLETED** 5/19/22
GROUND WATER LEVELS:
DRILLING CONTRACTOR HCI
AT TIME OF DRILLING ---
DRILLING METHOD Air Rotary
AFTER DRILLING ---
LOGGED BY Robert Martin **CHECKED BY** Patrick Finn
BTOC = Below Top Of Casing
GB = Grab Sample
GEO = Geotech Sample
GPS COORDINATES 32.670695°, -104.517747°

DEPTH (ft)	SOIL SAMPLE ANALYSIS	GROUNDWATER LEVELS (BTOC)	PID/FIELD CHLORIDE TITRATION (In ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					Silty Soil Backfill	Casing Type: 6.25" Diameter Temp. Well
			0			
			0			
			0			
			0			
5			0			
			0			
			0			
			0			
			0			
10			0			
			0			
			0			
			0			
			0		Liner encountered	
15			0			
			0			
			0			
			0			
			0			
20			0			
			0			
			0			
			0 / 3300		23.0	
			0 / 3000+		(GC) Clayey Gravelly Silt, brown, moderately sorted, soft, 0.10"-0.25" diameter gravel, rounded to subangular	
25			0 / 3000+			◄Bentonite
	GB		0 / 3000+			
			0 / 2400			
			0 / 2700			
			0 / 1800			
30			0 / 2400			
			0 / 2100			
			0 / 1200			
			0 / 900			
35			0 / 900			

(Continued Next Page)

ENVIRONMENTAL BH - GINT STD US.GDT - 8/19/22 08:38 - R:\DRAFTING FILES\GINT LOGS\5375 - ROY SWD #3 - BORING LOGS.GPJ

Ranger Environmental Services, Inc.
P.O. Box 201179,
Austin, Texas 78720
Phone: (512)335-1785
Fax: (512)335-0527

BORING NUMBER SB-5

CLIENT EOG Resources, Inc. **PROJECT NAME** Roy SWD #3

PROJECT NUMBER 5375 **PROJECT LOCATION** Eddy County, New Mexico

DEPTH (ft)	SOIL SAMPLE ANALYSIS	GROUNDWATER LEVELS (BTOC)	PID/FIELD CHLORIDE TITRATION (In ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
35			0 / 1650		36.0	
			0 / 1500		(SM) Clayey Sandy Silt, red to reddish-brown, well sorted, soft, poorly graded, 0.10"-0.25" diameter gravel, subrounded	
			0 / 1200			
	GB		0 / 1050			
	GB		0 / 300			
40	GB		0 / 300		40.0	

Bottom of borehole at 40.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 8/19/22 08:38 - R:\DRAFTING FILES\GINT LOGS\5375 - ROY SWD #3 - BORING LOGS.GPJ

ATTACHMENT 2 – PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPH NO. 1 – A view of "Wellhead Area" during the soil removal and preparation process. The view is towards the northeast.

(Approximate GPS Coordinates: 32.670569, -104.517875)



PHOTOGRAPH NO. 2 – A view of the "Wellhead Area" during the GCL installation process in April 2022. The view is towards the southeast.

(Approximate GPS Coordinates: 32.670747, -104.517872)



PHOTOGRAPH NO. 3 – A view of vertical delineation soil boring activities in the "Wellhead Area" on May 19, 2022. The former Roy SWD #3 well head location can be seen in the left-hand side of the photograph. The view is towards the northwest.

(Approximate GPS Coordinates: 32.670601, -104.517669)



PHOTOGRAPH NO. 4 – A view of the "Eastern" Pad Area during the remediation process. The view is towards the southeast.

(Approximate GPS Coordinates: 32.670951, -104.517395)



PHOTOGRAPH NO. 5 – A view of the "Middle" Pad Area during the remediation process. The view is towards the east.

(Approximate GPS Coordinates: 32.670645, -104.517688)



PHOTOGRAPH NO. 6 – A view of the "Southern" Pad Area during the remediation process. The view is towards the east.

(Approximate GPS Coordinates: 32.670476, -104.517867)



PHOTOGRAPH NO. 7 – A view "Eastern" Pad Excavation Area upon completion. The view is towards the east.



PHOTOGRAPH NO. 8 – A view "Middle" Pad Excavation Area upon completion. The view is towards the east.



PHOTOGRAPH NO. 9 – A view "Southern" Pad Excavation Area upon completion. The view is towards the south.

ATTACHMENT 3 – LABORATORY ANALYTICAL REPORTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

August 30, 2021

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2108E67

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 11 sample(s) on 8/26/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2108E67**
Date Reported: **8/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-1
Project: Roy SWD 3 **Collection Date:** 8/24/2021 10:53:00 AM
Lab ID: 2108E67-001 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	370	61		mg/Kg	20	8/26/2021 10:16:24 AM	62208
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/26/2021 12:23:57 PM	62203
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/26/2021 12:23:57 PM	62203
Surr: DNOP	149	70-130	S	%Rec	1	8/26/2021 12:23:57 PM	62203
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	8/26/2021 12:43:00 PM	R80824
Surr: BFB	93.6	70-130		%Rec	1	8/26/2021 12:43:00 PM	R80824
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.016		mg/Kg	1	8/26/2021 12:43:00 PM	R80824
Toluene	ND	0.033		mg/Kg	1	8/26/2021 12:43:00 PM	R80824
Ethylbenzene	ND	0.033		mg/Kg	1	8/26/2021 12:43:00 PM	R80824
Xylenes, Total	ND	0.065		mg/Kg	1	8/26/2021 12:43:00 PM	R80824
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	8/26/2021 12:43:00 PM	R80824

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2108E67**
Date Reported: **8/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-2
Project: Roy SWD 3 **Collection Date:** 8/24/2021 10:57:00 AM
Lab ID: 2108E67-002 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	280	60		mg/Kg	20	8/26/2021 10:28:48 AM	62208
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/26/2021 12:33:42 PM	62203
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/26/2021 12:33:42 PM	62203
Surr: DNOP	155	70-130	S	%Rec	1	8/26/2021 12:33:42 PM	62203
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/26/2021 1:04:00 PM	R80824
Surr: BFB	92.3	70-130		%Rec	1	8/26/2021 1:04:00 PM	R80824
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.018		mg/Kg	1	8/26/2021 1:04:00 PM	R80824
Toluene	ND	0.036		mg/Kg	1	8/26/2021 1:04:00 PM	R80824
Ethylbenzene	ND	0.036		mg/Kg	1	8/26/2021 1:04:00 PM	R80824
Xylenes, Total	ND	0.072		mg/Kg	1	8/26/2021 1:04:00 PM	R80824
Surr: 4-Bromofluorobenzene	82.0	70-130		%Rec	1	8/26/2021 1:04:00 PM	R80824

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2108E67**
Date Reported: **8/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-3
Project: Roy SWD 3 **Collection Date:** 8/24/2021 11:01:00 AM
Lab ID: 2108E67-003 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	450	60		mg/Kg	20	8/26/2021 10:41:12 AM	62208
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/26/2021 3:52:45 PM	62203
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/26/2021 3:52:45 PM	62203
Surr: DNOP	125	70-130		%Rec	1	8/26/2021 3:52:45 PM	62203
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/26/2021 1:44:00 PM	R80824
Surr: BFB	93.4	70-130		%Rec	1	8/26/2021 1:44:00 PM	R80824
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.018		mg/Kg	1	8/26/2021 1:44:00 PM	R80824
Toluene	ND	0.037		mg/Kg	1	8/26/2021 1:44:00 PM	R80824
Ethylbenzene	ND	0.037		mg/Kg	1	8/26/2021 1:44:00 PM	R80824
Xylenes, Total	ND	0.074		mg/Kg	1	8/26/2021 1:44:00 PM	R80824
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	8/26/2021 1:44:00 PM	R80824

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2108E67**
Date Reported: **8/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-4
Project: Roy SWD 3 **Collection Date:** 8/24/2021 2:20:00 PM
Lab ID: 2108E67-004 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	480	60		mg/Kg	20	8/26/2021 10:53:36 AM	62208
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/26/2021 4:17:03 PM	62203
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/26/2021 4:17:03 PM	62203
Surr: DNOP	124	70-130		%Rec	1	8/26/2021 4:17:03 PM	62203
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg	1	8/26/2021 2:04:00 PM	R80824
Surr: BFB	95.4	70-130		%Rec	1	8/26/2021 2:04:00 PM	R80824
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.026		mg/Kg	1	8/26/2021 2:04:00 PM	R80824
Toluene	ND	0.053		mg/Kg	1	8/26/2021 2:04:00 PM	R80824
Ethylbenzene	ND	0.053		mg/Kg	1	8/26/2021 2:04:00 PM	R80824
Xylenes, Total	ND	0.11		mg/Kg	1	8/26/2021 2:04:00 PM	R80824
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	8/26/2021 2:04:00 PM	R80824

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2108E67**
Date Reported: **8/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-5
Project: Roy SWD 3 **Collection Date:** 8/24/2021 2:23:00 PM
Lab ID: 2108E67-005 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	350	60		mg/Kg	20	8/26/2021 11:06:01 AM	62208
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/26/2021 4:41:23 PM	62204
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/26/2021 4:41:23 PM	62204
Surr: DNOP	131	70-130	S	%Rec	1	8/26/2021 4:41:23 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.7		mg/Kg	1	8/26/2021 2:25:00 PM	R80824
Surr: BFB	94.2	70-130		%Rec	1	8/26/2021 2:25:00 PM	R80824
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.028		mg/Kg	1	8/26/2021 2:25:00 PM	R80824
Toluene	ND	0.057		mg/Kg	1	8/26/2021 2:25:00 PM	R80824
Ethylbenzene	ND	0.057		mg/Kg	1	8/26/2021 2:25:00 PM	R80824
Xylenes, Total	ND	0.11		mg/Kg	1	8/26/2021 2:25:00 PM	R80824
Surr: 4-Bromofluorobenzene	83.1	70-130		%Rec	1	8/26/2021 2:25:00 PM	R80824

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2108E67**
Date Reported: **8/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-6
Project: Roy SWD 3 **Collection Date:** 8/24/2021 2:27:00 PM
Lab ID: 2108E67-006 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	360	60		mg/Kg	20	8/26/2021 11:18:25 AM	62208
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/26/2021 3:55:20 PM	62204
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/26/2021 3:55:20 PM	62204
Surr: DNOP	148	70-130	S	%Rec	1	8/26/2021 3:55:20 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	8/26/2021 2:45:00 PM	R80824
Surr: BFB	91.0	70-130		%Rec	1	8/26/2021 2:45:00 PM	R80824
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.021		mg/Kg	1	8/26/2021 2:45:00 PM	R80824
Toluene	ND	0.041		mg/Kg	1	8/26/2021 2:45:00 PM	R80824
Ethylbenzene	ND	0.041		mg/Kg	1	8/26/2021 2:45:00 PM	R80824
Xylenes, Total	ND	0.083		mg/Kg	1	8/26/2021 2:45:00 PM	R80824
Surr: 4-Bromofluorobenzene	81.0	70-130		%Rec	1	8/26/2021 2:45:00 PM	R80824

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2108E67**
Date Reported: **8/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** N-1
Project: Roy SWD 3 **Collection Date:** 8/24/2021 11:30:00 AM
Lab ID: 2108E67-007 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	430	60		mg/Kg	20	8/26/2021 11:30:49 AM	62208
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/26/2021 4:05:12 PM	62204
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/26/2021 4:05:12 PM	62204
Surr: DNOP	147	70-130	S	%Rec	1	8/26/2021 4:05:12 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	8/26/2021 3:05:00 PM	R80824
Surr: BFB	91.2	70-130		%Rec	1	8/26/2021 3:05:00 PM	R80824
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.019		mg/Kg	1	8/26/2021 3:05:00 PM	R80824
Toluene	ND	0.038		mg/Kg	1	8/26/2021 3:05:00 PM	R80824
Ethylbenzene	ND	0.038		mg/Kg	1	8/26/2021 3:05:00 PM	R80824
Xylenes, Total	ND	0.077		mg/Kg	1	8/26/2021 3:05:00 PM	R80824
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	8/26/2021 3:05:00 PM	R80824

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2108E67**
Date Reported: **8/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** NW-1
Project: Roy SWD 3 **Collection Date:** 8/24/2021 11:34:00 AM
Lab ID: 2108E67-008 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	270	60		mg/Kg	20	8/26/2021 12:08:02 PM	62208
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/26/2021 4:15:05 PM	62204
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/26/2021 4:15:05 PM	62204
Surr: DNOP	155	70-130	S	%Rec	1	8/26/2021 4:15:05 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/26/2021 3:25:00 PM	R80824
Surr: BFB	92.1	70-130		%Rec	1	8/26/2021 3:25:00 PM	R80824
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	8/26/2021 3:25:00 PM	R80824
Toluene	ND	0.047		mg/Kg	1	8/26/2021 3:25:00 PM	R80824
Ethylbenzene	ND	0.047		mg/Kg	1	8/26/2021 3:25:00 PM	R80824
Xylenes, Total	ND	0.094		mg/Kg	1	8/26/2021 3:25:00 PM	R80824
Surr: 4-Bromofluorobenzene	81.0	70-130		%Rec	1	8/26/2021 3:25:00 PM	R80824

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2108E67**
Date Reported: **8/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W-1
Project: Roy SWD 3 **Collection Date:** 8/24/2021 1:50:00 PM
Lab ID: 2108E67-009 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	370	59		mg/Kg	20	8/26/2021 12:20:26 PM	62208
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/26/2021 4:24:58 PM	62204
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/26/2021 4:24:58 PM	62204
Surr: DNOP	152	70-130	S	%Rec	1	8/26/2021 4:24:58 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	8/26/2021 3:45:00 PM	R80824
Surr: BFB	88.4	70-130		%Rec	1	8/26/2021 3:45:00 PM	R80824
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.019		mg/Kg	1	8/26/2021 3:45:00 PM	R80824
Toluene	ND	0.038		mg/Kg	1	8/26/2021 3:45:00 PM	R80824
Ethylbenzene	ND	0.038		mg/Kg	1	8/26/2021 3:45:00 PM	R80824
Xylenes, Total	ND	0.076		mg/Kg	1	8/26/2021 3:45:00 PM	R80824
Surr: 4-Bromofluorobenzene	78.3	70-130		%Rec	1	8/26/2021 3:45:00 PM	R80824

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2108E67**
Date Reported: **8/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** SW-1
Project: Roy SWD 3 **Collection Date:** 8/24/2021 1:53:00 PM
Lab ID: 2108E67-010 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	410	60		mg/Kg	20	8/26/2021 12:32:50 PM	62208
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/26/2021 4:34:50 PM	62204
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/26/2021 4:34:50 PM	62204
Surr: DNOP	146	70-130	S	%Rec	1	8/26/2021 4:34:50 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	8/26/2021 4:06:00 PM	R80824
Surr: BFB	94.1	70-130		%Rec	1	8/26/2021 4:06:00 PM	R80824
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.020		mg/Kg	1	8/26/2021 4:06:00 PM	R80824
Toluene	ND	0.040		mg/Kg	1	8/26/2021 4:06:00 PM	R80824
Ethylbenzene	ND	0.040		mg/Kg	1	8/26/2021 4:06:00 PM	R80824
Xylenes, Total	ND	0.080		mg/Kg	1	8/26/2021 4:06:00 PM	R80824
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	8/26/2021 4:06:00 PM	R80824

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2108E67**
Date Reported: **8/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** SW-2
Project: Roy SWD 3 **Collection Date:** 8/24/2021 1:55:00 PM
Lab ID: 2108E67-011 **Matrix:** MEOH (SOIL) **Received Date:** 8/26/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	540	60		mg/Kg	20	8/26/2021 12:45:15 PM	62208
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/26/2021 3:47:50 PM	62204
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/26/2021 3:47:50 PM	62204
Surr: DNOP	126	70-130		%Rec	1	8/26/2021 3:47:50 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	8/26/2021 4:26:00 PM	R80824
Surr: BFB	90.3	70-130		%Rec	1	8/26/2021 4:26:00 PM	R80824
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.021		mg/Kg	1	8/26/2021 4:26:00 PM	R80824
Toluene	ND	0.042		mg/Kg	1	8/26/2021 4:26:00 PM	R80824
Ethylbenzene	ND	0.042		mg/Kg	1	8/26/2021 4:26:00 PM	R80824
Xylenes, Total	ND	0.084		mg/Kg	1	8/26/2021 4:26:00 PM	R80824
Surr: 4-Bromofluorobenzene	82.0	70-130		%Rec	1	8/26/2021 4:26:00 PM	R80824

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2108E67**
30-Aug-21

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-62208** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **62208** RunNo: **80827**
Prep Date: **8/26/2021** Analysis Date: **8/26/2021** SeqNo: **2852353** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-62208** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **62208** RunNo: **80827**
Prep Date: **8/26/2021** Analysis Date: **8/26/2021** SeqNo: **2852354** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2108E67**
30-Aug-21

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-62203**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **62203**	RunNo: **80815**							
Prep Date: **8/26/2021**	Analysis Date: **8/26/2021**	SeqNo: **2851609**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	15		10.00		148	70	130			S

Sample ID: **MB-62204**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **62204**	RunNo: **80814**							
Prep Date: **8/26/2021**	Analysis Date: **8/26/2021**	SeqNo: **2853083**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	70	130			

Sample ID: **LCS-62204**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **62204**	RunNo: **80814**							
Prep Date: **8/26/2021**	Analysis Date: **8/26/2021**	SeqNo: **2853084**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.4	68.9	141			
Surr: DNOP	4.8		5.000		97.0	70	130			

Sample ID: **LCS-62203**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **62203**	RunNo: **80848**							
Prep Date: **8/26/2021**	Analysis Date: **8/27/2021**	SeqNo: **2853731**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.7	68.9	141			
Surr: DNOP	5.1		5.000		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2108E67**
30-Aug-21

Client: EOG
Project: Roy SWD 3

Sample ID: **mb-32189** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **R80824** RunNo: **80824**
Prep Date: Analysis Date: **8/26/2021** SeqNo: **2852393** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.6	70	130			

Sample ID: **lcs-62189** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **62189** RunNo: **80824**
Prep Date: **8/25/2021** Analysis Date: **8/26/2021** SeqNo: **2852394** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	70	130			

Sample ID: **MB-Water** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **R80824** RunNo: **80824**
Prep Date: Analysis Date: **8/26/2021** SeqNo: **2852480** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2108E67**
30-Aug-21

Client: EOG
Project: Roy SWD 3

Sample ID: **mb-32189**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R80824**	RunNo: **80824**
Prep Date:	Analysis Date: **8/26/2021**	SeqNo: **2852421** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.79		1.000		79.0	70	130			

Sample ID: **lcs-62189**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **62189**	RunNo: **80824**
Prep Date: **8/25/2021**	Analysis Date: **8/26/2021**	SeqNo: **2852422** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.79		1.000		79.1	70	130			

Sample ID: **MB-Water**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R80824**	RunNo: **80824**
Prep Date:	Analysis Date: **8/26/2021**	SeqNo: **2852482** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **EOG** Work Order Number: **2108E67** RcptNo: **1**

Received By: **Cheyenne Cason** **8/26/2021 7:30:00 AM**

Completed By: **Isaiah Ortiz** **8/26/2021 8:16:56 AM**

Reviewed By: KPG 8/26/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Samples were collected the same day and chilled.
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: JR 8/26/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	8.7	Good	Not Present			
2	10.1	Good	Not Present			

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ Rush SAME DAY

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KIERDORF
On Ice: ☒ Yes ☐ No
# of Coolers: 2 8.8-0.1 = 8.7
Cooler Temp(including CF): 10.2 -0.1 = 10.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2108167	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/24/2021	1053	SOIL	B-1	1x 4oz JAR	ICE	001	X	X	X
"	1057	"	B-2	"	"	002	"	"	"
"	1101	"	B-3	"	"	003	"	"	"
"	1420	"	B-4	"	"	004	"	"	"
"	1423	"	B-5	"	"	005	"	"	"
"	1427	"	B-6	"	"	006	"	"	"
"	1130	"	N-1	"	"	007	"	"	"
"	1134	"	NW-1	"	"	008	"	"	"
"	1350	"	W-1	"	"	009	"	"	"
"	1353	"	SW-1	"	"	010	"	"	"
"	1355	"	SW-2	"	"	011	"	"	"

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8/25/2021	0736				8/25/21	7:36
8/25/21	1900				Date	Time
			see cour		8/26/21	0730

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 29, 2021

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2109B71

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/22/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2109B71**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** PL-SW-1
Project: Roy SWD 3 **Collection Date:** 9/21/2021 9:31:00 AM
Lab ID: 2109B71-001 **Matrix:** MEOH (SOIL) **Received Date:** 9/22/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	510	60		mg/Kg	20	9/22/2021 10:40:43 AM	62749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/22/2021 11:42:04 AM	62736
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/22/2021 11:42:04 AM	62736
Surr: DNOP	88.2	70-130		%Rec	1	9/22/2021 11:42:04 AM	62736
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/23/2021 11:34:36 AM	G81527
Surr: BFB	104	70-130		%Rec	1	9/23/2021 11:34:36 AM	G81527
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	9/22/2021 11:51:01 AM	B81482
Toluene	ND	0.037		mg/Kg	1	9/22/2021 11:51:01 AM	B81482
Ethylbenzene	ND	0.037		mg/Kg	1	9/22/2021 11:51:01 AM	B81482
Xylenes, Total	ND	0.074		mg/Kg	1	9/22/2021 11:51:01 AM	B81482
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	1	9/22/2021 11:51:01 AM	B81482

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2109B71**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** PL-EW-1
Project: Roy SWD 3 **Collection Date:** 9/21/2021 10:15:00 AM
Lab ID: 2109B71-002 **Matrix:** MEOH (SOIL) **Received Date:** 9/22/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	520	60		mg/Kg	20	9/22/2021 10:53:07 AM	62749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/22/2021 11:54:23 AM	62736
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/22/2021 11:54:23 AM	62736
Surr: DNOP	76.7	70-130		%Rec	1	9/22/2021 11:54:23 AM	62736
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/23/2021 11:58:10 AM	G81527
Surr: BFB	103	70-130		%Rec	1	9/23/2021 11:58:10 AM	G81527
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	9/22/2021 12:14:42 PM	B81482
Toluene	ND	0.037		mg/Kg	1	9/22/2021 12:14:42 PM	B81482
Ethylbenzene	ND	0.037		mg/Kg	1	9/22/2021 12:14:42 PM	B81482
Xylenes, Total	ND	0.074		mg/Kg	1	9/22/2021 12:14:42 PM	B81482
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	9/22/2021 12:14:42 PM	B81482

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2109B71**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** PL-EW-2
Project: Roy SWD 3 **Collection Date:** 9/21/2021 10:05:00 AM
Lab ID: 2109B71-003 **Matrix:** MEOH (SOIL) **Received Date:** 9/22/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	460	60		mg/Kg	20	9/22/2021 11:05:31 AM	62749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/22/2021 12:06:57 PM	62736
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/22/2021 12:06:57 PM	62736
Surr: DNOP	80.2	70-130		%Rec	1	9/22/2021 12:06:57 PM	62736
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	9/23/2021 12:21:39 PM	G81527
Surr: BFB	103	70-130		%Rec	1	9/23/2021 12:21:39 PM	G81527
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	9/22/2021 12:38:09 PM	B81482
Toluene	ND	0.039		mg/Kg	1	9/22/2021 12:38:09 PM	B81482
Ethylbenzene	ND	0.039		mg/Kg	1	9/22/2021 12:38:09 PM	B81482
Xylenes, Total	ND	0.078		mg/Kg	1	9/22/2021 12:38:09 PM	B81482
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	1	9/22/2021 12:38:09 PM	B81482

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2109B71**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** PL-WW-1
Project: Roy SWD 3 **Collection Date:** 9/21/2021 9:46:00 AM
Lab ID: 2109B71-004 **Matrix:** MEOH (SOIL) **Received Date:** 9/22/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	820	59		mg/Kg	20	9/22/2021 11:17:56 AM	62749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/22/2021 12:19:18 PM	62736
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/22/2021 12:19:18 PM	62736
Surr: DNOP	78.9	70-130		%Rec	1	9/22/2021 12:19:18 PM	62736
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/23/2021 12:45:11 PM	G81527
Surr: BFB	104	70-130		%Rec	1	9/23/2021 12:45:11 PM	G81527
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	9/22/2021 1:01:34 PM	B81482
Toluene	ND	0.040		mg/Kg	1	9/22/2021 1:01:34 PM	B81482
Ethylbenzene	ND	0.040		mg/Kg	1	9/22/2021 1:01:34 PM	B81482
Xylenes, Total	ND	0.080		mg/Kg	1	9/22/2021 1:01:34 PM	B81482
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	9/22/2021 1:01:34 PM	B81482

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2109B71**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** PL-WW-2
Project: Roy SWD 3 **Collection Date:** 9/21/2021 9:55:00 AM
Lab ID: 2109B71-005 **Matrix:** MEOH (SOIL) **Received Date:** 9/22/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	640	60		mg/Kg	20	9/22/2021 11:30:21 AM	62749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/23/2021 11:15:07 AM	62736
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/23/2021 11:15:07 AM	62736
Surr: DNOP	92.1	70-130		%Rec	1	9/23/2021 11:15:07 AM	62736
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	9/23/2021 1:08:37 PM	G81527
Surr: BFB	103	70-130		%Rec	1	9/23/2021 1:08:37 PM	G81527
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	9/23/2021 1:08:37 PM	B81527
Toluene	ND	0.041		mg/Kg	1	9/23/2021 1:08:37 PM	B81527
Ethylbenzene	ND	0.041		mg/Kg	1	9/23/2021 1:08:37 PM	B81527
Xylenes, Total	ND	0.081		mg/Kg	1	9/23/2021 1:08:37 PM	B81527
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	9/23/2021 1:08:37 PM	B81527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2109B71**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** PL-NW-E
Project: Roy SWD 3 **Collection Date:** 9/21/2021 10:26:00 AM
Lab ID: 2109B71-006 **Matrix:** MEOH (SOIL) **Received Date:** 9/22/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	490	61		mg/Kg	20	9/22/2021 12:07:34 PM	62749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/23/2021 10:51:18 AM	62736
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/23/2021 10:51:18 AM	62736
Surr: DNOP	92.5	70-130		%Rec	1	9/23/2021 10:51:18 AM	62736
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/23/2021 1:32:18 PM	G81527
Surr: BFB	104	70-130		%Rec	1	9/23/2021 1:32:18 PM	G81527
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	9/23/2021 1:32:18 PM	B81527
Toluene	ND	0.037		mg/Kg	1	9/23/2021 1:32:18 PM	B81527
Ethylbenzene	ND	0.037		mg/Kg	1	9/23/2021 1:32:18 PM	B81527
Xylenes, Total	ND	0.075		mg/Kg	1	9/23/2021 1:32:18 PM	B81527
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	9/23/2021 1:32:18 PM	B81527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2109B71**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** PL-NW-W
Project: Roy SWD 3 **Collection Date:** 9/21/2021 10:30:00 AM
Lab ID: 2109B71-007 **Matrix:** MEOH (SOIL) **Received Date:** 9/22/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	9/22/2021 12:19:59 PM	62749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/22/2021 10:32:17 AM	62736
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/22/2021 10:32:17 AM	62736
Surr: DNOP	91.8	70-130		%Rec	1	9/22/2021 10:32:17 AM	62736
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	9/23/2021 1:55:46 PM	G81527
Surr: BFB	105	70-130		%Rec	1	9/23/2021 1:55:46 PM	G81527
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	9/23/2021 1:55:46 PM	B81527
Toluene	ND	0.035		mg/Kg	1	9/23/2021 1:55:46 PM	B81527
Ethylbenzene	ND	0.035		mg/Kg	1	9/23/2021 1:55:46 PM	B81527
Xylenes, Total	ND	0.071		mg/Kg	1	9/23/2021 1:55:46 PM	B81527
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	9/23/2021 1:55:46 PM	B81527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2109B71**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** PL-SW-N
Project: Roy SWD 3 **Collection Date:** 9/21/2021 10:33:00 AM
Lab ID: 2109B71-008 **Matrix:** MEOH (SOIL) **Received Date:** 9/22/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	190	61		mg/Kg	20	9/22/2021 12:32:24 PM	62749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/22/2021 10:56:11 AM	62736
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/22/2021 10:56:11 AM	62736
Surr: DNOP	87.6	70-130		%Rec	1	9/22/2021 10:56:11 AM	62736
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/23/2021 2:19:17 PM	G81527
Surr: BFB	105	70-130		%Rec	1	9/23/2021 2:19:17 PM	G81527
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	9/23/2021 2:19:17 PM	B81527
Toluene	ND	0.040		mg/Kg	1	9/23/2021 2:19:17 PM	B81527
Ethylbenzene	ND	0.040		mg/Kg	1	9/23/2021 2:19:17 PM	B81527
Xylenes, Total	ND	0.080		mg/Kg	1	9/23/2021 2:19:17 PM	B81527
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	9/23/2021 2:19:17 PM	B81527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109B71**
29-Sep-21

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-62749**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **62749**	RunNo: **81465**							
Prep Date: **9/22/2021**	Analysis Date: **9/22/2021**	SeqNo: **2879290**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-62749**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **62749**	RunNo: **81465**							
Prep Date: **9/22/2021**	Analysis Date: **9/22/2021**	SeqNo: **2879291**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.9	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109B71**
29-Sep-21

Client: EOG
Project: Roy SWD 3

Sample ID: **LCS-62736** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **62736** RunNo: **81472**
Prep Date: **9/22/2021** Analysis Date: **9/22/2021** SeqNo: **2878395** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.4	68.9	135			
Surr: DNOP	4.4		5.000		88.9	70	130			

Sample ID: **MB-62736** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **62736** RunNo: **81472**
Prep Date: **9/22/2021** Analysis Date: **9/22/2021** SeqNo: **2878420** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109B71**
29-Sep-21

Client: EOG
Project: Roy SWD 3

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G81527**	RunNo: **81527**							
Prep Date:	Analysis Date: **9/23/2021**	SeqNo: **2880274**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **G81527**	RunNo: **81527**							
Prep Date:	Analysis Date: **9/23/2021**	SeqNo: **2880275**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	78.6	131			
Surr: BFB	1200		1000		120	70	130			

Sample ID: **mb-62766**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **62766**	RunNo: **81527**							
Prep Date: **9/22/2021**	Analysis Date: **9/23/2021**	SeqNo: **2880290**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	70	130			

Sample ID: **lcs-62766**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **62766**	RunNo: **81527**							
Prep Date: **9/22/2021**	Analysis Date: **9/23/2021**	SeqNo: **2880291**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		115	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109B71**
29-Sep-21

Client: EOG
Project: Roy SWD 3

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **B81482** RunNo: **81482**
Prep Date: Analysis Date: **9/22/2021** SeqNo: **2879097** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.6	70	130			

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **B81482** RunNo: **81482**
Prep Date: Analysis Date: **9/22/2021** SeqNo: **2879102** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.5	80	120			
Toluene	0.99	0.050	1.000	0	99.4	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **B81527** RunNo: **81527**
Prep Date: Analysis Date: **9/23/2021** SeqNo: **2880318** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		91.9	70	130			

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **B81527** RunNo: **81527**
Prep Date: Analysis Date: **9/23/2021** SeqNo: **2880319** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.9	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109B71**
29-Sep-21

Client: EOG
Project: Roy SWD 3

Sample ID: **mb-62766** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **62766** RunNo: **81527**
Prep Date: **9/22/2021** Analysis Date: **9/23/2021** SeqNo: **2880326** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		89.5	70	130			

Sample ID: **LCS-62766** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **62766** RunNo: **81527**
Prep Date: **9/22/2021** Analysis Date: **9/23/2021** SeqNo: **2880327** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **EOG** Work Order Number: **2109B71** RcptNo: 1

Received By: **Cheyenne Cason** **9/22/2021 7:10:00 AM** Chad

Completed By: **Sean Livingston** **9/22/2021 8:15:06 AM** Sean Livingston

Reviewed By: IO 9.22.21

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: JO 9/22/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.1	Good				

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

1 of 1

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** SAME DAY

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KIERDORF

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 5.2 -0.1 = 5.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2109871	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9/21/21	0931	SOIL	PL-SW-1	1x4oz JAR	ICE	001	X	X	X
"	1015	"	PL-EW-1	"	"	002	"	"	"
"	1005	"	PL-EW-2	"	"	003	"	"	"
"	0946	"	PL-WW-1	"	"	004	"	"	"
"	0955	"	PL-WW-2	"	"	005	"	"	"
"	1026	"	PL-NW-E	"	"	006	"	"	"
"	1030	"	PL-NW-W	"	"	007	"	"	"
"	1033	"	PL-SW-N	"	"	008	"	"	"

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
9/21/21	1205				9/21/21	1205
9/21/21	1900		CHC COURIER		9/22/21	0710

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 29, 2021

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2109B70

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/22/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2109B70**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** WH-1.A
Project: Roy SWD 3 **Collection Date:** 9/21/2021 8:58:00 AM
Lab ID: 2109B70-001 **Matrix:** MEOH (SOIL) **Received Date:** 9/22/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	420	60		mg/Kg	20	9/22/2021 10:03:30 AM	62749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/22/2021 11:04:30 AM	62736
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/22/2021 11:04:30 AM	62736
Surr: DNOP	90.9	70-130		%Rec	1	9/22/2021 11:04:30 AM	62736
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/23/2021 10:23:21 AM	G81527
Surr: BFB	106	70-130		%Rec	1	9/23/2021 10:23:21 AM	G81527
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	9/22/2021 9:25:11 AM	B81482
Toluene	ND	0.040		mg/Kg	1	9/22/2021 9:25:11 AM	B81482
Ethylbenzene	ND	0.040		mg/Kg	1	9/22/2021 9:25:11 AM	B81482
Xylenes, Total	ND	0.081		mg/Kg	1	9/22/2021 9:25:11 AM	B81482
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	9/22/2021 9:25:11 AM	B81482

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2109B70**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** PL-1.A
Project: Roy SWD 3 **Collection Date:** 9/21/2021 9:08:00 AM
Lab ID: 2109B70-002 **Matrix:** MEOH (SOIL) **Received Date:** 9/22/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	500	61		mg/Kg	20	9/22/2021 10:15:54 AM	62749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/22/2021 11:16:58 AM	62736
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/22/2021 11:16:58 AM	62736
Surr: DNOP	104	70-130		%Rec	1	9/22/2021 11:16:58 AM	62736
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	9/23/2021 10:47:07 AM	G81527
Surr: BFB	104	70-130		%Rec	1	9/23/2021 10:47:07 AM	G81527
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	9/22/2021 9:48:58 AM	B81482
Toluene	ND	0.038		mg/Kg	1	9/22/2021 9:48:58 AM	B81482
Ethylbenzene	ND	0.038		mg/Kg	1	9/22/2021 9:48:58 AM	B81482
Xylenes, Total	ND	0.076		mg/Kg	1	9/22/2021 9:48:58 AM	B81482
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	9/22/2021 9:48:58 AM	B81482

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2109B70**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** PH-1.A
Project: Roy SWD 3 **Collection Date:** 9/21/2021 9:14:00 AM
Lab ID: 2109B70-003 **Matrix:** MEOH (SOIL) **Received Date:** 9/22/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	170	60		mg/Kg	20	9/22/2021 10:28:18 AM	62749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/22/2021 11:29:24 AM	62736
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/22/2021 11:29:24 AM	62736
Surr: DNOP	85.4	70-130		%Rec	1	9/22/2021 11:29:24 AM	62736
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	9/23/2021 11:10:54 AM	G81527
Surr: BFB	104	70-130		%Rec	1	9/23/2021 11:10:54 AM	G81527
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	9/22/2021 11:27:29 AM	B81482
Toluene	ND	0.041		mg/Kg	1	9/22/2021 11:27:29 AM	B81482
Ethylbenzene	ND	0.041		mg/Kg	1	9/22/2021 11:27:29 AM	B81482
Xylenes, Total	ND	0.082		mg/Kg	1	9/22/2021 11:27:29 AM	B81482
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	9/22/2021 11:27:29 AM	B81482

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109B70**
29-Sep-21

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-62749** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **62749** RunNo: **81465**
Prep Date: **9/22/2021** Analysis Date: **9/22/2021** SeqNo: **2879290** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-62749** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **62749** RunNo: **81465**
Prep Date: **9/22/2021** Analysis Date: **9/22/2021** SeqNo: **2879291** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.9	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109B70**
29-Sep-21

Client: EOG
Project: Roy SWD 3

Sample ID: **LCS-62736** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **62736** RunNo: **81472**
Prep Date: **9/22/2021** Analysis Date: **9/22/2021** SeqNo: **2878395** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.4	68.9	135			
Surr: DNOP	4.4		5.000		88.9	70	130			

Sample ID: **MB-62736** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **62736** RunNo: **81472**
Prep Date: **9/22/2021** Analysis Date: **9/22/2021** SeqNo: **2878420** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109B70**
29-Sep-21

Client: EOG
Project: Roy SWD 3

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G81527**	RunNo: **81527**							
Prep Date:	Analysis Date: **9/23/2021**	SeqNo: **2880274**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **G81527**	RunNo: **81527**							
Prep Date:	Analysis Date: **9/23/2021**	SeqNo: **2880275**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	78.6	131			
Surr: BFB	1200		1000		120	70	130			

Sample ID: **mb-62766**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **62766**	RunNo: **81527**							
Prep Date: **9/22/2021**	Analysis Date: **9/23/2021**	SeqNo: **2880290**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	70	130			

Sample ID: **lcs-62766**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **62766**	RunNo: **81527**							
Prep Date: **9/22/2021**	Analysis Date: **9/23/2021**	SeqNo: **2880291**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		115	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109B70**
29-Sep-21

Client: EOG
Project: Roy SWD 3

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **B81482** RunNo: **81482**
Prep Date: Analysis Date: **9/22/2021** SeqNo: **2879097** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.6	70	130			

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **B81482** RunNo: **81482**
Prep Date: Analysis Date: **9/22/2021** SeqNo: **2879102** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.5	80	120			
Toluene	0.99	0.050	1.000	0	99.4	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	70	130			

Sample ID: **mb-62766** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **62766** RunNo: **81527**
Prep Date: **9/22/2021** Analysis Date: **9/23/2021** SeqNo: **2880326** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		89.5	70	130			

Sample ID: **LCS-62766** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **62766** RunNo: **81527**
Prep Date: **9/22/2021** Analysis Date: **9/23/2021** SeqNo: **2880327** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **EOG** Work Order Number: **2109B70** RcptNo: **1**

Received By: **Cheyenne Cason** **9/22/2021 7:10:00 AM** CC

Completed By: **Sean Livingston** **9/22/2021 8:01:14 AM** SL

Reviewed By: ZO 9.22.21

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: JR 9/22/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.1	Good				

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other_____

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☒ **Rush** SAME DAY

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KIERDORF

On Ice: ☒ Yes ☐ No

# of Coolers: (

Cooler Temp (including CF) 5.2-0.1=5.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2109830	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9/21/21	0858	SOIL	WH-1.A	1x 4oz JAR	ICE	001	X	X	X
"	0908	"	PT-1.A	"	"	002	"	"	"
"	0914	"	PH-1.A	"	"	003	"	"	"

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/21/21	1205		[signature]		9/21/21	1205
9/21/21	1900	[signature]	[signature]	Courier	9/22/21	0710

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Received by OCD: 6/19/2025 8:41:42 AM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 11, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD3 OrderNo.: 2204063

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/2/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2204063**
Date Reported: **4/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PL-WF1
Project: Roy SWD3
Collection Date: 3/30/2022 3:24:00 PM
Lab ID: 2204063-001 **Matrix:** SOIL **Received Date:** 4/2/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	490	60		mg/Kg	20	4/5/2022 4:06:44 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/5/2022 11:30:39 AM	66612
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/5/2022 11:30:39 AM	66612
Surr: DNOP	134	51.1-141		%Rec	1	4/5/2022 11:30:39 AM	66612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/2/2022 9:57:00 PM	A86939
Surr: BFB	97.8	37.7-212		%Rec	1	4/2/2022 9:57:00 PM	A86939
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.017		mg/Kg	1	4/2/2022 9:57:00 PM	C86939
Toluene	ND	0.034		mg/Kg	1	4/2/2022 9:57:00 PM	C86939
Ethylbenzene	ND	0.034		mg/Kg	1	4/2/2022 9:57:00 PM	C86939
Xylenes, Total	ND	0.067		mg/Kg	1	4/2/2022 9:57:00 PM	C86939
Surr: 4-Bromofluorobenzene	80.6	70-130		%Rec	1	4/2/2022 9:57:00 PM	C86939

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204063**
Date Reported: **4/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: PL-WF2
Project: Roy SWD3
Collection Date: 3/31/2022 9:47:00 AM
Lab ID: 2204063-002 **Matrix:** SOIL **Received Date:** 4/2/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	320	60		mg/Kg	20	4/5/2022 4:19:09 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/5/2022 11:54:44 AM	66612
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/5/2022 11:54:44 AM	66612
Surr: DNOP	119	51.1-141		%Rec	1	4/5/2022 11:54:44 AM	66612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	2.8		mg/Kg	1	4/2/2022 10:16:00 PM	A86939
Surr: BFB	94.4	37.7-212		%Rec	1	4/2/2022 10:16:00 PM	A86939
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.014		mg/Kg	1	4/2/2022 10:16:00 PM	C86939
Toluene	ND	0.028		mg/Kg	1	4/2/2022 10:16:00 PM	C86939
Ethylbenzene	ND	0.028		mg/Kg	1	4/2/2022 10:16:00 PM	C86939
Xylenes, Total	ND	0.057		mg/Kg	1	4/2/2022 10:16:00 PM	C86939
Surr: 4-Bromofluorobenzene	78.7	70-130		%Rec	1	4/2/2022 10:16:00 PM	C86939

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204063**
Date Reported: **4/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** PL-WF3
Project: Roy SWD3 **Collection Date:** 3/31/2022 9:49:00 AM
Lab ID: 2204063-003 **Matrix:** SOIL **Received Date:** 4/2/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	350	60		mg/Kg	20	4/5/2022 4:31:33 PM	66637
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/5/2022 12:18:55 PM	66612
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/5/2022 12:18:55 PM	66612
Surr: DNOP	116	51.1-141		%Rec	1	4/5/2022 12:18:55 PM	66612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	2.8		mg/Kg	1	4/2/2022 10:36:00 PM	A86939
Surr: BFB	99.1	37.7-212		%Rec	1	4/2/2022 10:36:00 PM	A86939
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.014		mg/Kg	1	4/2/2022 10:36:00 PM	C86939
Toluene	ND	0.028		mg/Kg	1	4/2/2022 10:36:00 PM	C86939
Ethylbenzene	ND	0.028		mg/Kg	1	4/2/2022 10:36:00 PM	C86939
Xylenes, Total	ND	0.057		mg/Kg	1	4/2/2022 10:36:00 PM	C86939
Surr: 4-Bromofluorobenzene	78.4	70-130		%Rec	1	4/2/2022 10:36:00 PM	C86939

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204063**
11-Apr-22

Client: EOG
Project: Roy SWD3

Sample ID: **MB-66637**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **66637**	RunNo: **86993**							
Prep Date: **4/5/2022**	Analysis Date: **4/5/2022**	SeqNo: **3075207**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66637**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **66637**	RunNo: **86993**							
Prep Date: **4/5/2022**	Analysis Date: **4/5/2022**	SeqNo: **3075208**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204063**
11-Apr-22

Client: EOG
Project: Roy SWD3

Sample ID: **MB-66612**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **66612**	RunNo: **86991**
Prep Date: ***4/4/2022***	Analysis Date: ***4/5/2022***	SeqNo: **3074090** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	26		10.00		256	51.1	141			S

Sample ID: **LCS-66612**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **66612**	RunNo: **86991**
Prep Date: ***4/4/2022***	Analysis Date: ***4/5/2022***	SeqNo: **3074094** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	68.9	135			
Surr: DNOP	5.3		5.000		106	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204063**
11-Apr-22

Client: EOG
Project: Roy SWD3

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **A86939**	RunNo: **86939**
Prep Date:	Analysis Date: **4/2/2022**	SeqNo: **3071760** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	72.3	137			
Surr: BFB	2200		1000		225	37.7	212			S

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **A86939**	RunNo: **86939**
Prep Date:	Analysis Date: **4/2/2022**	SeqNo: **3071761** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204063**

11-Apr-22

Client: EOG

Project: Roy SWD3

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **C86939**	RunNo: **86939**
Prep Date:	Analysis Date: **4/2/2022**	SeqNo: **3071804** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.5	80	120			
Toluene	0.93	0.050	1.000	0	92.9	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.2	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **C86939**	RunNo: **86939**
Prep Date:	Analysis Date: **4/2/2022**	SeqNo: **3071805** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2204063 | RcptNo: 1

Received By: Tracy Casarrubias 4/2/2022 8:00:00 AM

Completed By: Tracy Casarrubias 4/2/2022 11:30:32 AM

Reviewed By: GM 04/02/2022

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: TMC 4/2/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good	Yes			
2	3.3	Good	Yes			

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☒ Rush 24-hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy
On Ice: ☒ Yes ☐ No
# of Coolers: 2
Cooler Temp(including CF): 4.7 - 0 = 4.7 (3.3 - 0 = 3.3)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204063	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
3/31/22	1524	Soil	PL-WF1	1x 4oz Jar	Ice	001	X	X	X
3/31/22	0947	"	PL-WF2	"	"	002	"	"	"
"	0949	"	PL-WF3	"	"	003	"	"	"

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/1/22	800	W. Kennedy			4/1/22	800
4/1/22	1900			Courier	4/2/22	10:00

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 15, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2204378

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/8/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2204378**
Date Reported: **4/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** NEF-1
Project: Roy SWD 3 **Collection Date:** 4/7/2022 11:13:00 AM
Lab ID: 2204378-001 **Matrix:** MEOH (SOIL) **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	570	61		mg/Kg	20	4/11/2022 11:24:37 AM	66749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/8/2022 12:25:40 PM	66727
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/8/2022 12:25:40 PM	66727
Surr: DNOP	93.0	51.1-141		%Rec	1	4/8/2022 12:25:40 PM	66727
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	4/8/2022 10:34:51 AM	G87123
Surr: BFB	93.8	37.7-212		%Rec	1	4/8/2022 10:34:51 AM	G87123
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.019		mg/Kg	1	4/8/2022 10:34:51 AM	B87123
Toluene	ND	0.038		mg/Kg	1	4/8/2022 10:34:51 AM	B87123
Ethylbenzene	ND	0.038		mg/Kg	1	4/8/2022 10:34:51 AM	B87123
Xylenes, Total	ND	0.076		mg/Kg	1	4/8/2022 10:34:51 AM	B87123
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	4/8/2022 10:34:51 AM	B87123

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204378**
Date Reported: **4/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** NWF-1
Project: Roy SWD 3 **Collection Date:** 4/7/2022 11:15:00 AM
Lab ID: 2204378-002 **Matrix:** MEOH (SOIL) **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	420	59		mg/Kg	20	4/11/2022 11:37:02 AM	66749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/8/2022 12:36:10 PM	66727
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/8/2022 12:36:10 PM	66727
Surr: DNOP	107	51.1-141		%Rec	1	4/8/2022 12:36:10 PM	66727
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	4/8/2022 10:58:16 AM	G87123
Surr: BFB	98.3	37.7-212		%Rec	1	4/8/2022 10:58:16 AM	G87123
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.022		mg/Kg	1	4/8/2022 10:58:16 AM	B87123
Toluene	ND	0.045		mg/Kg	1	4/8/2022 10:58:16 AM	B87123
Ethylbenzene	ND	0.045		mg/Kg	1	4/8/2022 10:58:16 AM	B87123
Xylenes, Total	ND	0.090		mg/Kg	1	4/8/2022 10:58:16 AM	B87123
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	4/8/2022 10:58:16 AM	B87123

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204378**
Date Reported: **4/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** SEF-1
Project: Roy SWD 3 **Collection Date:** 4/7/2022 11:23:00 AM
Lab ID: 2204378-003 **Matrix:** MEOH (SOIL) **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	91	60		mg/Kg	20	4/11/2022 11:49:26 AM	66749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/8/2022 12:46:42 PM	66727
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/8/2022 12:46:42 PM	66727
Surr: DNOP	109	51.1-141		%Rec	1	4/8/2022 12:46:42 PM	66727
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	4/8/2022 11:22:05 AM	G87123
Surr: BFB	98.4	37.7-212		%Rec	1	4/8/2022 11:22:05 AM	G87123
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.020		mg/Kg	1	4/8/2022 11:22:05 AM	B87123
Toluene	ND	0.040		mg/Kg	1	4/8/2022 11:22:05 AM	B87123
Ethylbenzene	ND	0.040		mg/Kg	1	4/8/2022 11:22:05 AM	B87123
Xylenes, Total	ND	0.080		mg/Kg	1	4/8/2022 11:22:05 AM	B87123
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	4/8/2022 11:22:05 AM	B87123

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204378**
Date Reported: **4/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** SF-1
Project: Roy SWD 3 **Collection Date:** 4/7/2022 11:25:00 AM
Lab ID: 2204378-004 **Matrix:** MEOH (SOIL) **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	ND	59		mg/Kg	20	4/11/2022 12:01:51 PM	66749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	4/8/2022 12:57:14 PM	66727
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	4/8/2022 12:57:14 PM	66727
Surr: DNOP	104	51.1-141		%Rec	1	4/8/2022 12:57:14 PM	66727
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/8/2022 11:45:45 AM	G87123
Surr: BFB	95.7	37.7-212		%Rec	1	4/8/2022 11:45:45 AM	G87123
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.017		mg/Kg	1	4/8/2022 11:45:45 AM	B87123
Toluene	ND	0.034		mg/Kg	1	4/8/2022 11:45:45 AM	B87123
Ethylbenzene	ND	0.034		mg/Kg	1	4/8/2022 11:45:45 AM	B87123
Xylenes, Total	ND	0.068		mg/Kg	1	4/8/2022 11:45:45 AM	B87123
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	4/8/2022 11:45:45 AM	B87123

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2204378**
Date Reported: **4/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** N-2
Project: Roy SWD 3 **Collection Date:** 4/7/2022 1:15:00 PM
Lab ID: 2204378-005 **Matrix:** MEOH (SOIL) **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	220	60		mg/Kg	20	4/11/2022 12:14:15 PM	66749
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/8/2022 1:07:47 PM	66727
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/8/2022 1:07:47 PM	66727
Surr: DNOP	82.1	51.1-141		%Rec	1	4/8/2022 1:07:47 PM	66727
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/8/2022 12:09:28 PM	G87123
Surr: BFB	91.2	37.7-212		%Rec	1	4/8/2022 12:09:28 PM	G87123
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.019		mg/Kg	1	4/8/2022 12:09:28 PM	B87123
Toluene	ND	0.037		mg/Kg	1	4/8/2022 12:09:28 PM	B87123
Ethylbenzene	ND	0.037		mg/Kg	1	4/8/2022 12:09:28 PM	B87123
Xylenes, Total	ND	0.074		mg/Kg	1	4/8/2022 12:09:28 PM	B87123
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	4/8/2022 12:09:28 PM	B87123

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204378**
15-Apr-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-66749** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **66749** RunNo: **87147**
Prep Date: **4/11/2022** Analysis Date: **4/11/2022** SeqNo: **3081676** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66749** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **66749** RunNo: **87147**
Prep Date: **4/11/2022** Analysis Date: **4/11/2022** SeqNo: **3081677** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204378**
15-Apr-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-66715** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **66715** RunNo: **87125**
Prep Date: **4/7/2022** Analysis Date: **4/8/2022** SeqNo: **3080356** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		110	51.1	141			

Sample ID: **MB-66727** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **66727** RunNo: **87125**
Prep Date: **4/8/2022** Analysis Date: **4/8/2022** SeqNo: **3080357** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.2	51.1	141			

Sample ID: **LCS-66715** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **66715** RunNo: **87125**
Prep Date: **4/7/2022** Analysis Date: **4/8/2022** SeqNo: **3080358** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.1	51.1	141			

Sample ID: **LCS-66727** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **66727** RunNo: **87125**
Prep Date: **4/8/2022** Analysis Date: **4/8/2022** SeqNo: **3080359** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.6	68.9	135			
Surr: DNOP	4.3		5.000		86.4	51.1	141			

Qualifiers:

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D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204378**
15-Apr-22

Client: EOG
Project: Roy SWD 3

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G87123**	RunNo: **87123**							
Prep Date:	Analysis Date: **4/8/2022**	SeqNo: **3080176**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.6	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **G87123**	RunNo: **87123**							
Prep Date:	Analysis Date: **4/8/2022**	SeqNo: **3080177**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	72.3	137			
Surr: BFB	2100		1000		206	37.7	212			

Sample ID: **mb-66697**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **66697**	RunNo: **87123**							
Prep Date: **4/7/2022**	Analysis Date: **4/8/2022**	SeqNo: **3080198**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	960		1000		95.5	37.7	212			

Sample ID: **lcs-66697**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **66697**	RunNo: **87123**							
Prep Date: **4/7/2022**	Analysis Date: **4/8/2022**	SeqNo: **3080199**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2100		1000		210	37.7	212			

Qualifiers:

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D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2204378**
15-Apr-22

Client: EOG
Project: Roy SWD 3

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **B87123** RunNo: **87123**
Prep Date: Analysis Date: **4/8/2022** SeqNo: **3080226** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **B87123** RunNo: **87123**
Prep Date: Analysis Date: **4/8/2022** SeqNo: **3080227** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.2	80	120			
Toluene	0.92	0.050	1.000	0	92.5	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: **mb-66697** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **66697** RunNo: **87123**
Prep Date: **4/7/2022** Analysis Date: **4/8/2022** SeqNo: **3080241** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: **LCS-66697** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **66697** RunNo: **87123**
Prep Date: **4/7/2022** Analysis Date: **4/8/2022** SeqNo: **3080242** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG Work Order Number: 2204378 RcptNo: 1

Received By: Cheyenne Cason 4/8/2022 7:45:00 AM

Completed By: Sean Livingston 4/8/2022 8:58:51 AM

Reviewed By: JM 4/8/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: KPG 4/8/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.7	Good				

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 24HR

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KIERDORF

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 4.0-0.3=3.7

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204378	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
4/7/22	1113	SOIL	NEF-1	1x 4oz JAR	ICE	001	X	X	X
"	1115	"	NWF-1	"	"	002	"	"	"
"	1123	"	SEF-1	"	"	003	"	"	"
"	1125	"	SF-1	"	"	004	"	"	"
"	1315	"	N-2	"	"	005	"	"	"

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/7/22	1522				4/7/22	1522
4/7/22	1900			Courier	04/8/22	0745

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 02, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2205923

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 21 sample(s) on 5/20/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

CLIENT: EOG
Client Sample ID: SB1-23
Project: Roy SWD 3
Collection Date: 5/18/2022 8:37:00 AM
Lab ID: 2205923-001 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1400	60		mg/Kg	20	5/25/2022 7:29:55 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	5/23/2022 1:17:23 PM	67607
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/23/2022 1:17:23 PM	67607
Surr: DNOP	86.1	51.1-141		%Rec	1	5/23/2022 1:17:23 PM	67607
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022	67603
Surr: BFB	83.8	37.7-212		%Rec	1	5/24/2022	67603
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022	67603
Toluene	ND	0.048		mg/Kg	1	5/24/2022	67603
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022	67603
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2022	67603
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	5/24/2022	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

CLIENT: EOG
Client Sample ID: SB1-38
Project: Roy SWD 3
Collection Date: 5/18/2022 9:35:00 AM
Lab ID: 2205923-002 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	670	60		mg/Kg	20	5/25/2022 7:42:16 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/23/2022 1:41:05 PM	67607
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/23/2022 1:41:05 PM	67607
Surr: DNOP	82.3	51.1-141		%Rec	1	5/23/2022 1:41:05 PM	67607
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 12:40:00 AM	67603
Surr: BFB	90.9	37.7-212		%Rec	1	5/24/2022 12:40:00 AM	67603
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 12:40:00 AM	67603
Toluene	ND	0.048		mg/Kg	1	5/24/2022 12:40:00 AM	67603
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 12:40:00 AM	67603
Xylenes, Total	ND	0.095		mg/Kg	1	5/24/2022 12:40:00 AM	67603
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	5/24/2022 12:40:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SB1-39
Project: Roy SWD 3
Collection Date: 5/18/2022 9:36:00 AM
Lab ID: 2205923-003 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	590	60		mg/Kg	20	5/25/2022 7:54:37 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/23/2022 2:04:55 PM	67607
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/23/2022 2:04:55 PM	67607
Surr: DNOP	82.4	51.1-141		%Rec	1	5/23/2022 2:04:55 PM	67607
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/24/2022 12:59:00 AM	67603
Surr: BFB	92.9	37.7-212		%Rec	1	5/24/2022 12:59:00 AM	67603
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 12:59:00 AM	67603
Toluene	ND	0.047		mg/Kg	1	5/24/2022 12:59:00 AM	67603
Ethylbenzene	ND	0.047		mg/Kg	1	5/24/2022 12:59:00 AM	67603
Xylenes, Total	ND	0.094		mg/Kg	1	5/24/2022 12:59:00 AM	67603
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	5/24/2022 12:59:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

CLIENT: EOG
Client Sample ID: SB1-40
Project: Roy SWD 3
Collection Date: 5/18/2022 9:37:00 AM
Lab ID: 2205923-004 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	260	61		mg/Kg	20	5/25/2022 8:06:57 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/23/2022 2:28:44 PM	67607
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/23/2022 2:28:44 PM	67607
Surr: DNOP	80.4	51.1-141		%Rec	1	5/23/2022 2:28:44 PM	67607
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 1:19:00 AM	67603
Surr: BFB	93.2	37.7-212		%Rec	1	5/24/2022 1:19:00 AM	67603
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 1:19:00 AM	67603
Toluene	ND	0.048		mg/Kg	1	5/24/2022 1:19:00 AM	67603
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 1:19:00 AM	67603
Xylenes, Total	ND	0.096		mg/Kg	1	5/24/2022 1:19:00 AM	67603
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	5/24/2022 1:19:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SB2-29
Project: Roy SWD 3
Collection Date: 5/18/2022 10:49:00 AM
Lab ID: 2205923-005 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	5200	300		mg/Kg	100	5/26/2022 10:36:38 AM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/23/2022 2:52:34 PM	67607
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/23/2022 2:52:34 PM	67607
Surr: DNOP	83.2	51.1-141		%Rec	1	5/23/2022 2:52:34 PM	67607
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/24/2022 1:39:00 AM	67603
Surr: BFB	94.5	37.7-212		%Rec	1	5/24/2022 1:39:00 AM	67603
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/24/2022 1:39:00 AM	67603
Toluene	ND	0.046		mg/Kg	1	5/24/2022 1:39:00 AM	67603
Ethylbenzene	ND	0.046		mg/Kg	1	5/24/2022 1:39:00 AM	67603
Xylenes, Total	ND	0.092		mg/Kg	1	5/24/2022 1:39:00 AM	67603
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	5/24/2022 1:39:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SB2-47
Project: Roy SWD 3
Collection Date: 5/18/2022 11:57:00 AM
Lab ID: 2205923-006 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	750	60		mg/Kg	20	5/25/2022 8:56:19 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	5/23/2022 3:16:20 PM	67607
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	5/23/2022 3:16:20 PM	67607
Surr: DNOP	85.5	51.1-141		%Rec	1	5/23/2022 3:16:20 PM	67607
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 1:58:00 AM	67603
Surr: BFB	91.4	37.7-212		%Rec	1	5/24/2022 1:58:00 AM	67603
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 1:58:00 AM	67603
Toluene	ND	0.048		mg/Kg	1	5/24/2022 1:58:00 AM	67603
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 1:58:00 AM	67603
Xylenes, Total	ND	0.096		mg/Kg	1	5/24/2022 1:58:00 AM	67603
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	5/24/2022 1:58:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SB2-48
Project: Roy SWD 3
Collection Date: 5/18/2022 11:58:00 AM
Lab ID: 2205923-007 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	310	60		mg/Kg	20	5/25/2022 9:08:40 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/23/2022 3:40:20 PM	67607
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/23/2022 3:40:20 PM	67607
Surr: DNOP	84.3	51.1-141		%Rec	1	5/23/2022 3:40:20 PM	67607
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 2:18:00 AM	67603
Surr: BFB	92.2	37.7-212		%Rec	1	5/24/2022 2:18:00 AM	67603
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 2:18:00 AM	67603
Toluene	ND	0.048		mg/Kg	1	5/24/2022 2:18:00 AM	67603
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 2:18:00 AM	67603
Xylenes, Total	ND	0.095		mg/Kg	1	5/24/2022 2:18:00 AM	67603
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	5/24/2022 2:18:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SB2-49
Project: Roy SWD 3
Collection Date: 5/18/2022 11:59:00 AM
Lab ID: 2205923-008 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	300	60		mg/Kg	20	5/25/2022 9:21:00 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/23/2022 4:04:25 PM	67607
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/23/2022 4:04:25 PM	67607
Surr: DNOP	81.5	51.1-141		%Rec	1	5/23/2022 4:04:25 PM	67607
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 2:38:00 AM	67603
Surr: BFB	95.7	37.7-212		%Rec	1	5/24/2022 2:38:00 AM	67603
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/24/2022 2:38:00 AM	67603
Toluene	ND	0.049		mg/Kg	1	5/24/2022 2:38:00 AM	67603
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 2:38:00 AM	67603
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2022 2:38:00 AM	67603
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	5/24/2022 2:38:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SB2-50
Project: Roy SWD 3
Collection Date: 5/18/2022 12:00:00 PM
Lab ID: 2205923-009 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	500	60		mg/Kg	20	5/25/2022 9:33:21 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/23/2022 4:28:29 PM	67607
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/23/2022 4:28:29 PM	67607
Surr: DNOP	83.7	51.1-141		%Rec	1	5/23/2022 4:28:29 PM	67607
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 2:58:00 AM	67603
Surr: BFB	101	37.7-212		%Rec	1	5/24/2022 2:58:00 AM	67603
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/24/2022 2:58:00 AM	67603
Toluene	ND	0.049		mg/Kg	1	5/24/2022 2:58:00 AM	67603
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 2:58:00 AM	67603
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2022 2:58:00 AM	67603
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	5/24/2022 2:58:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

CLIENT: EOG
Client Sample ID: SB3-4
Project: Roy SWD 3
Collection Date: 5/18/2022 1:04:00 PM
Lab ID: 2205923-010 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	130	60		mg/Kg	20	5/25/2022 10:35:03 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/23/2022 4:52:34 PM	67607
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/23/2022 4:52:34 PM	67607
Surr: DNOP	87.9	51.1-141		%Rec	1	5/23/2022 4:52:34 PM	67607
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 3:17:00 AM	67603
Surr: BFB	97.3	37.7-212		%Rec	1	5/24/2022 3:17:00 AM	67603
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 3:17:00 AM	67603
Toluene	ND	0.048		mg/Kg	1	5/24/2022 3:17:00 AM	67603
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 3:17:00 AM	67603
Xylenes, Total	ND	0.096		mg/Kg	1	5/24/2022 3:17:00 AM	67603
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	5/24/2022 3:17:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** SB3-14
Project: Roy SWD 3 **Collection Date:** 5/18/2022 1:14:00 PM
Lab ID: 2205923-011 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	5/25/2022 10:47:24 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/26/2022 1:40:05 AM	67669
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/26/2022 1:40:05 AM	67669
Surr: DNOP	96.5	51.1-141		%Rec	1	5/26/2022 1:40:05 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/24/2022 3:37:00 AM	67603
Surr: BFB	92.9	37.7-212		%Rec	1	5/24/2022 3:37:00 AM	67603
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/24/2022 3:37:00 AM	67603
Toluene	ND	0.047		mg/Kg	1	5/24/2022 3:37:00 AM	67603
Ethylbenzene	ND	0.047		mg/Kg	1	5/24/2022 3:37:00 AM	67603
Xylenes, Total	ND	0.094		mg/Kg	1	5/24/2022 3:37:00 AM	67603
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	5/24/2022 3:37:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SB3-29
Project: Roy SWD 3
Collection Date: 5/18/2022 1:31:00 PM
Lab ID: 2205923-012 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	63	60		mg/Kg	20	5/25/2022 11:24:26 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/26/2022 2:53:17 AM	67669
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/26/2022 2:53:17 AM	67669
Surr: DNOP	93.8	51.1-141		%Rec	1	5/26/2022 2:53:17 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/23/2022 9:40:57 PM	67605
Surr: BFB	90.7	37.7-212		%Rec	1	5/23/2022 9:40:57 PM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/23/2022 9:40:57 PM	67605
Toluene	ND	0.049		mg/Kg	1	5/23/2022 9:40:57 PM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/23/2022 9:40:57 PM	67605
Xylenes, Total	ND	0.099		mg/Kg	1	5/23/2022 9:40:57 PM	67605
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	5/23/2022 9:40:57 PM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

CLIENT: EOG
Client Sample ID: SB3-30
Project: Roy SWD 3
Collection Date: 5/18/2022 1:32:00 PM
Lab ID: 2205923-013 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	5/25/2022 11:36:46 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/26/2022 3:17:42 AM	67669
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/26/2022 3:17:42 AM	67669
Surr: DNOP	91.1	51.1-141		%Rec	1	5/26/2022 3:17:42 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/23/2022 10:51:34 PM	67605
Surr: BFB	92.4	37.7-212		%Rec	1	5/23/2022 10:51:34 PM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	5/23/2022 10:51:34 PM	67605
Toluene	ND	0.049		mg/Kg	1	5/23/2022 10:51:34 PM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/23/2022 10:51:34 PM	67605
Xylenes, Total	ND	0.098		mg/Kg	1	5/23/2022 10:51:34 PM	67605
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	5/23/2022 10:51:34 PM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SB4-10
Project: Roy SWD 3
Collection Date: 5/19/2022 7:40:00 AM
Lab ID: 2205923-014 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1300	59		mg/Kg	20	5/25/2022 11:49:07 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/26/2022 4:06:15 AM	67669
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/26/2022 4:06:15 AM	67669
Surr: DNOP	96.6	51.1-141		%Rec	1	5/26/2022 4:06:15 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/24/2022 12:02:08 AM	67605
Surr: BFB	89.7	37.7-212		%Rec	1	5/24/2022 12:02:08 AM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/24/2022 12:02:08 AM	67605
Toluene	ND	0.050		mg/Kg	1	5/24/2022 12:02:08 AM	67605
Ethylbenzene	ND	0.050		mg/Kg	1	5/24/2022 12:02:08 AM	67605
Xylenes, Total	ND	0.10		mg/Kg	1	5/24/2022 12:02:08 AM	67605
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	5/24/2022 12:02:08 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

CLIENT: EOG
Client Sample ID: SB4-15
Project: Roy SWD 3
Collection Date: 5/19/2022 7:45:00 AM
Lab ID: 2205923-015 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	890	60		mg/Kg	20	5/26/2022 12:01:28 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/26/2022 4:30:33 AM	67669
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 4:30:33 AM	67669
Surr: DNOP	97.9	51.1-141		%Rec	1	5/26/2022 4:30:33 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 12:25:48 AM	67605
Surr: BFB	92.3	37.7-212		%Rec	1	5/24/2022 12:25:48 AM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 12:25:48 AM	67605
Toluene	ND	0.049		mg/Kg	1	5/24/2022 12:25:48 AM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 12:25:48 AM	67605
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2022 12:25:48 AM	67605
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	5/24/2022 12:25:48 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SB4-20
Project: Roy SWD 3
Collection Date: 5/19/2022 7:50:00 AM
Lab ID: 2205923-016 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	250	59		mg/Kg	20	5/26/2022 12:13:48 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/26/2022 4:54:48 AM	67669
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/26/2022 4:54:48 AM	67669
Surr: DNOP	97.4	51.1-141		%Rec	1	5/26/2022 4:54:48 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 12:49:23 AM	67605
Surr: BFB	89.7	37.7-212		%Rec	1	5/24/2022 12:49:23 AM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 12:49:23 AM	67605
Toluene	ND	0.049		mg/Kg	1	5/24/2022 12:49:23 AM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 12:49:23 AM	67605
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2022 12:49:23 AM	67605
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	5/24/2022 12:49:23 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

CLIENT: EOG
Client Sample ID: SB4-30
Project: Roy SWD 3
Collection Date: 5/19/2022 8:00:00 AM
Lab ID: 2205923-017 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	5/26/2022 12:26:09 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/26/2022 5:18:59 AM	67669
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 5:18:59 AM	67669
Surr: DNOP	95.4	51.1-141		%Rec	1	5/26/2022 5:18:59 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/24/2022 1:13:03 AM	67605
Surr: BFB	89.4	37.7-212		%Rec	1	5/24/2022 1:13:03 AM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/24/2022 1:13:03 AM	67605
Toluene	ND	0.050		mg/Kg	1	5/24/2022 1:13:03 AM	67605
Ethylbenzene	ND	0.050		mg/Kg	1	5/24/2022 1:13:03 AM	67605
Xylenes, Total	ND	0.10		mg/Kg	1	5/24/2022 1:13:03 AM	67605
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	5/24/2022 1:13:03 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

CLIENT: EOG
Client Sample ID: SB5-26
Project: Roy SWD 3
Collection Date: 5/19/2022 8:46:00 AM
Lab ID: 2205923-018 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	4300	150		mg/Kg	50	5/26/2022 10:48:58 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/26/2022 5:43:08 AM	67669
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 5:43:08 AM	67669
Surr: DNOP	97.8	51.1-141		%Rec	1	5/26/2022 5:43:08 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 1:36:44 AM	67605
Surr: BFB	91.6	37.7-212		%Rec	1	5/24/2022 1:36:44 AM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 1:36:44 AM	67605
Toluene	ND	0.048		mg/Kg	1	5/24/2022 1:36:44 AM	67605
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 1:36:44 AM	67605
Xylenes, Total	ND	0.095		mg/Kg	1	5/24/2022 1:36:44 AM	67605
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	5/24/2022 1:36:44 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SB5-38
Project: Roy SWD 3
Collection Date: 5/19/2022 9:20:00 AM
Lab ID: 2205923-019 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1100	60		mg/Kg	20	5/26/2022 12:50:51 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/26/2022 6:07:01 AM	67669
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/26/2022 6:07:01 AM	67669
Surr: DNOP	100	51.1-141		%Rec	1	5/26/2022 6:07:01 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 2:00:25 AM	67605
Surr: BFB	92.6	37.7-212		%Rec	1	5/24/2022 2:00:25 AM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/24/2022 2:00:25 AM	67605
Toluene	ND	0.049		mg/Kg	1	5/24/2022 2:00:25 AM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 2:00:25 AM	67605
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2022 2:00:25 AM	67605
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	5/24/2022 2:00:25 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SB5-39
Project: Roy SWD 3
Collection Date: 5/19/2022 9:21:00 AM
Lab ID: 2205923-020 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	420	60		mg/Kg	20	5/26/2022 1:03:12 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/26/2022 6:30:56 AM	67669
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 6:30:56 AM	67669
Surr: DNOP	100	51.1-141		%Rec	1	5/26/2022 6:30:56 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 3:11:22 AM	67605
Surr: BFB	94.6	37.7-212		%Rec	1	5/24/2022 3:11:22 AM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 3:11:22 AM	67605
Toluene	ND	0.048		mg/Kg	1	5/24/2022 3:11:22 AM	67605
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 3:11:22 AM	67605
Xylenes, Total	ND	0.095		mg/Kg	1	5/24/2022 3:11:22 AM	67605
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	5/24/2022 3:11:22 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205923**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SB5-40
Project: Roy SWD 3
Collection Date: 5/19/2022 9:22:00 AM
Lab ID: 2205923-021 **Matrix:** SOIL **Received Date:** 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	380	60		mg/Kg	20	5/26/2022 1:15:33 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/26/2022 6:54:55 AM	67669
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/26/2022 6:54:55 AM	67669
Surr: DNOP	101	51.1-141		%Rec	1	5/26/2022 6:54:55 AM	67669
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 3:35:01 AM	67605
Surr: BFB	91.2	37.7-212		%Rec	1	5/24/2022 3:35:01 AM	67605
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 3:35:01 AM	67605
Toluene	ND	0.049		mg/Kg	1	5/24/2022 3:35:01 AM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 3:35:01 AM	67605
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2022 3:35:01 AM	67605
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	5/24/2022 3:35:01 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205923**

02-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-67690**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67690**	RunNo: **88285**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130981** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-67690**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67690**	RunNo: **88285**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130982** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Sample ID: **LCS-67699**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67699**	RunNo: **88285**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3131011** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

Sample ID: **MB-67699**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67699**	RunNo: **88285**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3131012** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205923**

02-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-67607**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67607**	RunNo: **88200**
Prep Date: **5/20/2022**	Analysis Date: **5/23/2022**	SeqNo: **3127567** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.00	0	116	64.4	127			
Surr: DNOP	6.4		5.000		127	51.1	141			

Sample ID: **MB-67607**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67607**	RunNo: **88200**
Prep Date: **5/20/2022**	Analysis Date: **5/23/2022**	SeqNo: **3127570** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		132	51.1	141			

Sample ID: **MB-67669**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67669**	RunNo: **88246**
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3131392** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.1	51.1	141			

Sample ID: **LCS-67669**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67669**	RunNo: **88246**
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3131393** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.4	64.4	127			
Surr: DNOP	4.8		5.000		95.9	51.1	141			

Sample ID: **MB-67666**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67666**	RunNo: **88263**
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3131422** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205923**

02-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-67666**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67666**	RunNo: **88263**
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3131423** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		108	51.1	141			

Sample ID: **MB-67680**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67680**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/26/2022**	SeqNo: **3132682** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		93.1	51.1	141			

Sample ID: **LCS-67680**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67680**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/26/2022**	SeqNo: **3132685** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.1	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205923**

02-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb-67605**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67605**	RunNo: **88206**
Prep Date: **5/20/2022**	Analysis Date: **5/24/2022**	SeqNo: **3126958** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.8	37.7	212			

Sample ID: **lcs-67605**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67605**	RunNo: **88206**
Prep Date: **5/20/2022**	Analysis Date: **5/23/2022**	SeqNo: **3126959** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	72.3	137			
Surr: BFB	2000		1000		200	37.7	212			

Sample ID: **lcs-67603**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67603**	RunNo: **88207**
Prep Date: **5/20/2022**	Analysis Date: **5/23/2022**	SeqNo: **3127053** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.1	72.3	137			
Surr: BFB	2000		1000		198	37.7	212			

Sample ID: **mb-67603**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67603**	RunNo: **88207**
Prep Date: **5/20/2022**	Analysis Date: **5/23/2022**	SeqNo: **3127054** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		85.5	37.7	212			

Sample ID: **lcs-67637**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128820** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		202	37.7	212			

Sample ID: **mb-67637**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128821** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		93.2	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205923**

02-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb-67605**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67605**	RunNo: **88206**
Prep Date: **5/20/2022**	Analysis Date: **5/24/2022**	SeqNo: **3127001** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	70	130			

Sample ID: **LCS-67605**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67605**	RunNo: **88206**
Prep Date: **5/20/2022**	Analysis Date: **5/23/2022**	SeqNo: **3127002** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.3	80	120			
Toluene	0.92	0.050	1.000	0	92.3	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.6	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: **lcs-67603**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67603**	RunNo: **88207**
Prep Date: **5/20/2022**	Analysis Date: **5/23/2022**	SeqNo: **3127099** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.95	0.050	1.000	0	95.0	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.0	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Sample ID: **mb-67603**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67603**	RunNo: **88207**
Prep Date: **5/20/2022**	Analysis Date: **5/23/2022**	SeqNo: **3127100** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205923**

02-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-67637**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128876** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	70	130			

Sample ID: **mb-67637**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128877** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG Work Order Number: 2205923 RcptNo: 1

Received By: Juan Rojas 5/20/2022 7:05:00 AM

Completed By: Juan Rojas 5/20/2022 7:36:50 AM

Reviewed By: JR 5/20/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JR 5/20/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good				

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other_____
■ EDD (Type) Excel

Turn-Around Time:
☒ Standard ☒ Rush 5 Day

Project Name:
Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 1.6-0.1=1.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2205923	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
per Erin 5/18/22 sa 5/20/22 5/18/22	0837	Soil	SB1-23	1 4oz Jar	Ice	-001	X	X	X
	0935		SB1-38			-002			
	0936		SB1-39			-003			
	0937		SB1-40			-004			
	1049		SB2-29			-005			
	1157		SB2-47			-006			
	1158		SB2-48			-007			
	1159		SB2-49			-008			
	1200		SB2-50			-009			
	1304		SB3-4			-010			
	1314		SB3-14			-011			
	1331		SB3-29			-012			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5/19/22	1215	W. Kennedy			5/19/22	1215
5/19/22	1900			Couriers	5/20/22	7:05

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG - Artesia / Ranger Env

Mailing Address: EOG - 105 S 4th st. Artesia, NM, 88210 / Ranger: PO Box 201179, Austin, Tx. 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☒ NELAC ☐ Other
☒ EDD (Type)

Turn-Around Time:
☒ Standard ☒ Rush 5 Day

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.6-0.1=1.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2205923	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride (EPA 300)
5/18/22	1332	soil	SB3-30	1 4oz Jar	Ice	-013	X	X									X
5/19/22	0740		SB4-10			-014											
	0745		SB4-15			-015											
	0750		SB4-20			-016											
	0800		SB4-30			-017											
	0846		SB5-26			-018											
	0920		SB5-38			-019											
	0921		SB5-39			~~-020~~											
	0922		SB5-40			-021											

Date: 5/19/22 Time: 1215 Relinquished by: W. Kennedy
Received by: Via: Date 5/19/22 Time 1215

Date: 5/19/22 Time: 1900 Relinquished by:
Received by: Courier Via: Date 5/20/22 Time 7:05

Remarks: Bill to EOG - Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 13, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2209E05

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 32 sample(s) on 9/27/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 07, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

CLIENT: EOG
Client Sample ID: B-1
Project: Roy SWD 3
Collection Date: 9/23/2022 2:00:00 PM
Lab ID: 2209E05-001 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	390	60		mg/Kg	20	10/1/2022 2:10:43 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 3:42:34 AM	70443
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2022 3:42:34 AM	70443
Surr: DNOP	107	21-129		%Rec	1	9/30/2022 3:42:34 AM	70443
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 8:13:32 PM	70438
Surr: BFB	94.1	37.7-212		%Rec	1	9/28/2022 8:13:32 PM	70438
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.025		mg/Kg	1	9/28/2022 8:13:32 PM	70438
Toluene	ND	0.049		mg/Kg	1	9/28/2022 8:13:32 PM	70438
Ethylbenzene	ND	0.049		mg/Kg	1	9/28/2022 8:13:32 PM	70438
Xylenes, Total	ND	0.099		mg/Kg	1	9/28/2022 8:13:32 PM	70438
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/28/2022 8:13:32 PM	70438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-2
Project: Roy SWD 3
Collection Date: 9/23/2022 2:02:00 PM
Lab ID: 2209E05-002 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	1000	61		mg/Kg	20	10/1/2022 2:47:56 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 3:53:15 AM	70443
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 3:53:15 AM	70443
Surr: DNOP	95.6	21-129		%Rec	1	9/30/2022 3:53:15 AM	70443
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/28/2022 8:36:52 PM	70438
Surr: BFB	93.3	37.7-212		%Rec	1	9/28/2022 8:36:52 PM	70438
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.025		mg/Kg	1	9/28/2022 8:36:52 PM	70438
Toluene	ND	0.050		mg/Kg	1	9/28/2022 8:36:52 PM	70438
Ethylbenzene	ND	0.050		mg/Kg	1	9/28/2022 8:36:52 PM	70438
Xylenes, Total	ND	0.10		mg/Kg	1	9/28/2022 8:36:52 PM	70438
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/28/2022 8:36:52 PM	70438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-3
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:04:00 PM
Lab ID: 2209E05-003 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	1200	60		mg/Kg	20	10/1/2022 3:00:21 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 4:03:53 AM	70443
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 4:03:53 AM	70443
Surr: DNOP	91.8	21-129		%Rec	1	9/30/2022 4:03:53 AM	70443
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/28/2022 9:00:20 PM	70438
Surr: BFB	94.2	37.7-212		%Rec	1	9/28/2022 9:00:20 PM	70438
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	9/28/2022 9:00:20 PM	70438
Toluene	ND	0.050		mg/Kg	1	9/28/2022 9:00:20 PM	70438
Ethylbenzene	ND	0.050		mg/Kg	1	9/28/2022 9:00:20 PM	70438
Xylenes, Total	ND	0.10		mg/Kg	1	9/28/2022 9:00:20 PM	70438
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/28/2022 9:00:20 PM	70438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-4
Project: Roy SWD 3
Collection Date: 9/23/2022 2:06:00 PM
Lab ID: 2209E05-004 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	1200	60		mg/Kg	20	10/1/2022 3:12:46 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 4:14:31 AM	70443
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 4:14:31 AM	70443
Surr: DNOP	87.6	21-129		%Rec	1	9/30/2022 4:14:31 AM	70443
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/28/2022 9:23:45 PM	70438
Surr: BFB	92.6	37.7-212		%Rec	1	9/28/2022 9:23:45 PM	70438
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.024		mg/Kg	1	9/28/2022 9:23:45 PM	70438
Toluene	ND	0.048		mg/Kg	1	9/28/2022 9:23:45 PM	70438
Ethylbenzene	ND	0.048		mg/Kg	1	9/28/2022 9:23:45 PM	70438
Xylenes, Total	ND	0.097		mg/Kg	1	9/28/2022 9:23:45 PM	70438
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/28/2022 9:23:45 PM	70438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-5
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:08:00 PM
Lab ID: 2209E05-005 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	1000	60		mg/Kg	20	10/1/2022 3:25:11 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 4:25:09 AM	70443
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 4:25:09 AM	70443
Surr: DNOP	87.8	21-129		%Rec	1	9/30/2022 4:25:09 AM	70443
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 9:47:18 PM	70438
Surr: BFB	91.3	37.7-212		%Rec	1	9/28/2022 9:47:18 PM	70438
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.025		mg/Kg	1	9/28/2022 9:47:18 PM	70438
Toluene	ND	0.049		mg/Kg	1	9/28/2022 9:47:18 PM	70438
Ethylbenzene	ND	0.049		mg/Kg	1	9/28/2022 9:47:18 PM	70438
Xylenes, Total	ND	0.099		mg/Kg	1	9/28/2022 9:47:18 PM	70438
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	9/28/2022 9:47:18 PM	70438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-6
Project: Roy SWD 3
Collection Date: 9/23/2022 2:10:00 PM
Lab ID: 2209E05-006 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	950	60		mg/Kg	20	10/1/2022 3:37:36 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 12:43:05 AM	70446
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 12:43:05 AM	70446
Surr: DNOP	112	21-129		%Rec	1	9/30/2022 12:43:05 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 10:41:00 PM	70439
Surr: BFB	104	37.7-212		%Rec	1	9/28/2022 10:41:00 PM	70439
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	9/28/2022 10:41:00 PM	70439
Toluene	ND	0.049		mg/Kg	1	9/28/2022 10:41:00 PM	70439
Ethylbenzene	ND	0.049		mg/Kg	1	9/28/2022 10:41:00 PM	70439
Xylenes, Total	ND	0.097		mg/Kg	1	9/28/2022 10:41:00 PM	70439
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	9/28/2022 10:41:00 PM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-7
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:12:00 PM
Lab ID: 2209E05-007 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	470	60		mg/Kg	20	10/1/2022 3:50:01 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 1:26:49 AM	70446
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/30/2022 1:26:49 AM	70446
Surr: DNOP	105	21-129		%Rec	1	9/30/2022 1:26:49 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 11:40:00 PM	70439
Surr: BFB	111	37.7-212		%Rec	1	9/28/2022 11:40:00 PM	70439
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	9/28/2022 11:40:00 PM	70439
Toluene	ND	0.049		mg/Kg	1	9/28/2022 11:40:00 PM	70439
Ethylbenzene	ND	0.049		mg/Kg	1	9/28/2022 11:40:00 PM	70439
Xylenes, Total	ND	0.098		mg/Kg	1	9/28/2022 11:40:00 PM	70439
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	9/28/2022 11:40:00 PM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-8
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:14:00 PM
Lab ID: 2209E05-008 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	1000	60		mg/Kg	20	10/1/2022 4:27:14 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 1:41:15 AM	70446
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/30/2022 1:41:15 AM	70446
Surr: DNOP	107	21-129		%Rec	1	9/30/2022 1:41:15 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/29/2022 12:39:00 AM	70439
Surr: BFB	106	37.7-212		%Rec	1	9/29/2022 12:39:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	9/29/2022 12:39:00 AM	70439
Toluene	ND	0.049		mg/Kg	1	9/29/2022 12:39:00 AM	70439
Ethylbenzene	ND	0.049		mg/Kg	1	9/29/2022 12:39:00 AM	70439
Xylenes, Total	ND	0.098		mg/Kg	1	9/29/2022 12:39:00 AM	70439
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	9/29/2022 12:39:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-9
Project: Roy SWD 3
Collection Date: 9/23/2022 2:16:00 PM
Lab ID: 2209E05-009 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	1200	60		mg/Kg	20	10/1/2022 4:39:38 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 1:55:41 AM	70446
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 1:55:41 AM	70446
Surr: DNOP	75.5	21-129		%Rec	1	9/30/2022 1:55:41 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/29/2022 12:59:00 AM	70439
Surr: BFB	101	37.7-212		%Rec	1	9/29/2022 12:59:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	9/29/2022 12:59:00 AM	70439
Toluene	ND	0.046		mg/Kg	1	9/29/2022 12:59:00 AM	70439
Ethylbenzene	ND	0.046		mg/Kg	1	9/29/2022 12:59:00 AM	70439
Xylenes, Total	ND	0.093		mg/Kg	1	9/29/2022 12:59:00 AM	70439
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	9/29/2022 12:59:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-10
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:18:00 PM
Lab ID: 2209E05-010 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	1000	60		mg/Kg	20	10/1/2022 4:52:03 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 2:10:07 AM	70446
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2022 2:10:07 AM	70446
Surr: DNOP	85.9	21-129		%Rec	1	9/30/2022 2:10:07 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 1:18:00 AM	70439
Surr: BFB	103	37.7-212		%Rec	1	9/29/2022 1:18:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	9/29/2022 1:18:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 1:18:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 1:18:00 AM	70439
Xylenes, Total	ND	0.095		mg/Kg	1	9/29/2022 1:18:00 AM	70439
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	9/29/2022 1:18:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-11
Project: Roy SWD 3
Collection Date: 9/23/2022 2:20:00 PM
Lab ID: 2209E05-011 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	680	60		mg/Kg	20	10/1/2022 5:04:28 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 2:24:31 AM	70446
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2022 2:24:31 AM	70446
Surr: DNOP	99.0	21-129		%Rec	1	9/30/2022 2:24:31 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/29/2022 1:38:00 AM	70439
Surr: BFB	100	37.7-212		%Rec	1	9/29/2022 1:38:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	9/29/2022 1:38:00 AM	70439
Toluene	ND	0.047		mg/Kg	1	9/29/2022 1:38:00 AM	70439
Ethylbenzene	ND	0.047		mg/Kg	1	9/29/2022 1:38:00 AM	70439
Xylenes, Total	ND	0.095		mg/Kg	1	9/29/2022 1:38:00 AM	70439
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	9/29/2022 1:38:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-12
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:22:00 PM
Lab ID: 2209E05-012 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	860	60		mg/Kg	20	10/1/2022 5:16:53 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 2:38:51 AM	70446
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2022 2:38:51 AM	70446
Surr: DNOP	70.8	21-129		%Rec	1	9/30/2022 2:38:51 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/29/2022 1:57:00 AM	70439
Surr: BFB	103	37.7-212		%Rec	1	9/29/2022 1:57:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025		mg/Kg	1	9/29/2022 1:57:00 AM	70439
Toluene	ND	0.050		mg/Kg	1	9/29/2022 1:57:00 AM	70439
Ethylbenzene	ND	0.050		mg/Kg	1	9/29/2022 1:57:00 AM	70439
Xylenes, Total	ND	0.099		mg/Kg	1	9/29/2022 1:57:00 AM	70439
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	9/29/2022 1:57:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-13
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:24:00 PM
Lab ID: 2209E05-013 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	630	60		mg/Kg	20	10/1/2022 5:29:18 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 2:53:15 AM	70446
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2022 2:53:15 AM	70446
Surr: DNOP	87.9	21-129		%Rec	1	9/30/2022 2:53:15 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/29/2022 2:17:00 AM	70439
Surr: BFB	107	37.7-212		%Rec	1	9/29/2022 2:17:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025		mg/Kg	1	9/29/2022 2:17:00 AM	70439
Toluene	ND	0.050		mg/Kg	1	9/29/2022 2:17:00 AM	70439
Ethylbenzene	ND	0.050		mg/Kg	1	9/29/2022 2:17:00 AM	70439
Xylenes, Total	ND	0.099		mg/Kg	1	9/29/2022 2:17:00 AM	70439
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	9/29/2022 2:17:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-14
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:26:00 PM
Lab ID: 2209E05-014 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	650	60		mg/Kg	20	10/3/2022 9:25:41 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 3:07:32 AM	70446
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/30/2022 3:07:32 AM	70446
Surr: DNOP	80.3	21-129		%Rec	1	9/30/2022 3:07:32 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 2:37:00 AM	70439
Surr: BFB	108	37.7-212		%Rec	1	9/29/2022 2:37:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	9/29/2022 2:37:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 2:37:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 2:37:00 AM	70439
Xylenes, Total	ND	0.096		mg/Kg	1	9/29/2022 2:37:00 AM	70439
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	9/29/2022 2:37:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-15
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:28:00 PM
Lab ID: 2209E05-015 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	1000	61		mg/Kg	20	10/3/2022 10:02:55 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 3:21:42 AM	70446
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2022 3:21:42 AM	70446
Surr: DNOP	80.3	21-129		%Rec	1	9/30/2022 3:21:42 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/29/2022 2:56:00 AM	70439
Surr: BFB	108	37.7-212		%Rec	1	9/29/2022 2:56:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025		mg/Kg	1	9/29/2022 2:56:00 AM	70439
Toluene	ND	0.050		mg/Kg	1	9/29/2022 2:56:00 AM	70439
Ethylbenzene	ND	0.050		mg/Kg	1	9/29/2022 2:56:00 AM	70439
Xylenes, Total	ND	0.10		mg/Kg	1	9/29/2022 2:56:00 AM	70439
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	9/29/2022 2:56:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-16
Project: Roy SWD 3
Collection Date: 9/23/2022 2:30:00 PM
Lab ID: 2209E05-016 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	570	60		mg/Kg	20	10/3/2022 10:15:19 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 3:35:59 AM	70446
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 3:35:59 AM	70446
Surr: DNOP	75.9	21-129		%Rec	1	9/30/2022 3:35:59 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 3:36:00 AM	70439
Surr: BFB	104	37.7-212		%Rec	1	9/29/2022 3:36:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	9/29/2022 3:36:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 3:36:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 3:36:00 AM	70439
Xylenes, Total	ND	0.097		mg/Kg	1	9/29/2022 3:36:00 AM	70439
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	9/29/2022 3:36:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-17
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:32:00 PM
Lab ID: 2209E05-017 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	1000	59		mg/Kg	20	10/3/2022 10:27:44 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 3:50:04 AM	70446
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 3:50:04 AM	70446
Surr: DNOP	79.9	21-129		%Rec	1	9/30/2022 3:50:04 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 3:55:00 AM	70439
Surr: BFB	100	37.7-212		%Rec	1	9/29/2022 3:55:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	9/29/2022 3:55:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 3:55:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 3:55:00 AM	70439
Xylenes, Total	ND	0.095		mg/Kg	1	9/29/2022 3:55:00 AM	70439
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	9/29/2022 3:55:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-18
Project: Roy SWD 3
Collection Date: 9/23/2022 2:34:00 PM
Lab ID: 2209E05-018 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	1300	60		mg/Kg	20	10/3/2022 10:40:09 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 4:04:08 AM	70446
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 4:04:08 AM	70446
Surr: DNOP	89.9	21-129		%Rec	1	9/30/2022 4:04:08 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/29/2022 4:15:00 AM	70439
Surr: BFB	106	37.7-212		%Rec	1	9/29/2022 4:15:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	9/29/2022 4:15:00 AM	70439
Toluene	ND	0.047		mg/Kg	1	9/29/2022 4:15:00 AM	70439
Ethylbenzene	ND	0.047		mg/Kg	1	9/29/2022 4:15:00 AM	70439
Xylenes, Total	ND	0.095		mg/Kg	1	9/29/2022 4:15:00 AM	70439
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	9/29/2022 4:15:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-19
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:36:00 PM
Lab ID: 2209E05-019 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	900	60		mg/Kg	20	10/3/2022 11:42:14 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 4:18:20 AM	70446
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/30/2022 4:18:20 AM	70446
Surr: DNOP	79.9	21-129		%Rec	1	9/30/2022 4:18:20 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 4:35:00 AM	70439
Surr: BFB	104	37.7-212		%Rec	1	9/29/2022 4:35:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	9/29/2022 4:35:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 4:35:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 4:35:00 AM	70439
Xylenes, Total	ND	0.097		mg/Kg	1	9/29/2022 4:35:00 AM	70439
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	9/29/2022 4:35:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-1
Project: Roy SWD 3
Collection Date: 9/23/2022 2:38:00 PM
Lab ID: 2209E05-020 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	450	60		mg/Kg	20	10/3/2022 11:54:38 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 4:32:16 AM	70446
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2022 4:32:16 AM	70446
Surr: DNOP	76.3	21-129		%Rec	1	9/30/2022 4:32:16 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 4:54:00 AM	70439
Surr: BFB	105	37.7-212		%Rec	1	9/29/2022 4:54:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	9/29/2022 4:54:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 4:54:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 4:54:00 AM	70439
Xylenes, Total	ND	0.095		mg/Kg	1	9/29/2022 4:54:00 AM	70439
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	9/29/2022 4:54:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-2
Project: Roy SWD 3
Collection Date: 9/23/2022 2:40:00 PM
Lab ID: 2209E05-021 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	850	60		mg/Kg	20	10/3/2022 12:07:02 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 4:46:15 AM	70446
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 4:46:15 AM	70446
Surr: DNOP	79.7	21-129		%Rec	1	9/30/2022 4:46:15 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 5:14:00 AM	70439
Surr: BFB	102	37.7-212		%Rec	1	9/29/2022 5:14:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	9/29/2022 5:14:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 5:14:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 5:14:00 AM	70439
Xylenes, Total	ND	0.096		mg/Kg	1	9/29/2022 5:14:00 AM	70439
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	9/29/2022 5:14:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W-3
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:42:00 PM
Lab ID: 2209E05-022 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	480	60		mg/Kg	20	10/3/2022 12:19:26 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 4:59:59 AM	70446
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2022 4:59:59 AM	70446
Surr: DNOP	91.2	21-129		%Rec	1	9/30/2022 4:59:59 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/29/2022 5:34:00 AM	70439
Surr: BFB	98.8	37.7-212		%Rec	1	9/29/2022 5:34:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	9/29/2022 5:34:00 AM	70439
Toluene	ND	0.047		mg/Kg	1	9/29/2022 5:34:00 AM	70439
Ethylbenzene	ND	0.047		mg/Kg	1	9/29/2022 5:34:00 AM	70439
Xylenes, Total	ND	0.094		mg/Kg	1	9/29/2022 5:34:00 AM	70439
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	9/29/2022 5:34:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-4
Project: Roy SWD 3
Collection Date: 9/23/2022 2:44:00 PM
Lab ID: 2209E05-023 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1500	60		mg/Kg	20	10/3/2022 12:31:51 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 5:13:51 AM	70446
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 5:13:51 AM	70446
Surr: DNOP	82.8	21-129		%Rec	1	9/30/2022 5:13:51 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/29/2022 5:53:00 AM	70439
Surr: BFB	105	37.7-212		%Rec	1	9/29/2022 5:53:00 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	9/29/2022 5:53:00 AM	70439
Toluene	ND	0.049		mg/Kg	1	9/29/2022 5:53:00 AM	70439
Ethylbenzene	ND	0.049		mg/Kg	1	9/29/2022 5:53:00 AM	70439
Xylenes, Total	ND	0.099		mg/Kg	1	9/29/2022 5:53:00 AM	70439
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	9/29/2022 5:53:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W-5
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:46:00 PM
Lab ID: 2209E05-024 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	890	60		mg/Kg	20	10/3/2022 12:44:16 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 5:27:22 AM	70446
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 5:27:22 AM	70446
Surr: DNOP	55.0	21-129		%Rec	1	9/30/2022 5:27:22 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/29/2022 4:49:01 AM	70439
Surr: BFB	93.4	37.7-212		%Rec	1	9/29/2022 4:49:01 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	9/29/2022 4:49:01 AM	70439
Toluene	ND	0.046		mg/Kg	1	9/29/2022 4:49:01 AM	70439
Ethylbenzene	ND	0.046		mg/Kg	1	9/29/2022 4:49:01 AM	70439
Xylenes, Total	ND	0.092		mg/Kg	1	9/29/2022 4:49:01 AM	70439
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	9/29/2022 4:49:01 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W-6
Project: Roy SWD 3 **Collection Date:** 9/23/2022 2:46:00 PM
Lab ID: 2209E05-025 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	2000	60		mg/Kg	20	10/3/2022 12:56:41 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	9/30/2022 5:40:57 AM	70446
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/30/2022 5:40:57 AM	70446
Surr: DNOP	77.4	21-129		%Rec	1	9/30/2022 5:40:57 AM	70446
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 5:36:15 AM	70439
Surr: BFB	93.6	37.7-212		%Rec	1	9/29/2022 5:36:15 AM	70439
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	9/29/2022 5:36:15 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 5:36:15 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 5:36:15 AM	70439
Xylenes, Total	ND	0.096		mg/Kg	1	9/29/2022 5:36:15 AM	70439
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	9/29/2022 5:36:15 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-7
Project: Roy SWD 3
Collection Date: 9/23/2022 2:48:00 PM
Lab ID: 2209E05-026 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	1700	60		mg/Kg	20	10/3/2022 1:09:05 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/29/2022 11:13:27 AM	70465
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/29/2022 11:13:27 AM	70465
Surr: DNOP	101	21-129		%Rec	1	9/29/2022 11:13:27 AM	70465
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/29/2022 12:48:00 PM	70460
Surr: BFB	106	37.7-212		%Rec	1	9/29/2022 12:48:00 PM	70460
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025		mg/Kg	1	9/29/2022 12:48:00 PM	70460
Toluene	ND	0.050		mg/Kg	1	9/29/2022 12:48:00 PM	70460
Ethylbenzene	ND	0.050		mg/Kg	1	9/29/2022 12:48:00 PM	70460
Xylenes, Total	ND	0.10		mg/Kg	1	9/29/2022 12:48:00 PM	70460
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	9/29/2022 12:48:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: RTP-2W/2
Project: Roy SWD 3
Collection Date: 9/23/2022 11:50:00 AM
Lab ID: 2209E05-027 **Matrix:** SOIL
Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	160	60		mg/Kg	20	10/3/2022 1:46:19 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/29/2022 11:53:53 AM	70465
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/29/2022 11:53:53 AM	70465
Surr: DNOP	106	21-129		%Rec	1	9/29/2022 11:53:53 AM	70465
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/29/2022 2:07:00 PM	70460
Surr: BFB	105	37.7-212		%Rec	1	9/29/2022 2:07:00 PM	70460
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	9/29/2022 2:07:00 PM	70460
Toluene	ND	0.050		mg/Kg	1	9/29/2022 2:07:00 PM	70460
Ethylbenzene	ND	0.050		mg/Kg	1	9/29/2022 2:07:00 PM	70460
Xylenes, Total	ND	0.099		mg/Kg	1	9/29/2022 2:07:00 PM	70460
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	9/29/2022 2:07:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: RTP-2W/4
Project: Roy SWD 3
Collection Date: 9/23/2022 12:00:00 PM
Lab ID: 2209E05-028 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	590	60		mg/Kg	20	10/3/2022 1:58:44 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**mb**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/29/2022 12:07:30 PM	70465
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/29/2022 12:07:30 PM	70465
Surr: DNOP	101	21-129		%Rec	1	9/29/2022 12:07:30 PM	70465
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/29/2022 3:05:00 PM	70460
Surr: BFB	105	37.7-212		%Rec	1	9/29/2022 3:05:00 PM	70460
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	9/29/2022 3:05:00 PM	70460
Toluene	ND	0.047		mg/Kg	1	9/29/2022 3:05:00 PM	70460
Ethylbenzene	ND	0.047		mg/Kg	1	9/29/2022 3:05:00 PM	70460
Xylenes, Total	ND	0.094		mg/Kg	1	9/29/2022 3:05:00 PM	70460
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	9/29/2022 3:05:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: RTP-2N/1
Project: Roy SWD 3
Collection Date: 9/23/2022 1:07:00 PM
Lab ID: 2209E05-029 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	10/3/2022 2:11:10 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/29/2022 12:21:03 PM	70465
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/29/2022 12:21:03 PM	70465
Surr: DNOP	115	21-129		%Rec	1	9/29/2022 12:21:03 PM	70465
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/29/2022 3:25:00 PM	70460
Surr: BFB	103	37.7-212		%Rec	1	9/29/2022 3:25:00 PM	70460
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	9/29/2022 3:25:00 PM	70460
Toluene	ND	0.047		mg/Kg	1	9/29/2022 3:25:00 PM	70460
Ethylbenzene	ND	0.047		mg/Kg	1	9/29/2022 3:25:00 PM	70460
Xylenes, Total	ND	0.094		mg/Kg	1	9/29/2022 3:25:00 PM	70460
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	9/29/2022 3:25:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: RTP-2N/4
Project: Roy SWD 3
Collection Date: 9/23/2022 1:22:00 PM
Lab ID: 2209E05-030 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	95	60		mg/Kg	20	10/3/2022 2:23:35 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/29/2022 12:34:33 PM	70465
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/29/2022 12:34:33 PM	70465
Surr: DNOP	89.0	21-129		%Rec	1	9/29/2022 12:34:33 PM	70465
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/29/2022 3:45:00 PM	70460
Surr: BFB	107	37.7-212		%Rec	1	9/29/2022 3:45:00 PM	70460
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	9/29/2022 3:45:00 PM	70460
Toluene	ND	0.049		mg/Kg	1	9/29/2022 3:45:00 PM	70460
Ethylbenzene	ND	0.049		mg/Kg	1	9/29/2022 3:45:00 PM	70460
Xylenes, Total	ND	0.097		mg/Kg	1	9/29/2022 3:45:00 PM	70460
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	9/29/2022 3:45:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: RTP-6N/1
Project: Roy SWD 3
Collection Date: 9/23/2022 2:16:00 PM
Lab ID: 2209E05-031 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	10/3/2022 2:36:00 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	62	14		mg/Kg	1	9/29/2022 12:48:10 PM	70465
Motor Oil Range Organics (MRO)	95	48		mg/Kg	1	9/29/2022 12:48:10 PM	70465
Surr: DNOP	110	21-129		%Rec	1	9/29/2022 12:48:10 PM	70465
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/29/2022 4:04:00 PM	70460
Surr: BFB	103	37.7-212		%Rec	1	9/29/2022 4:04:00 PM	70460
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	9/29/2022 4:04:00 PM	70460
Toluene	ND	0.046		mg/Kg	1	9/29/2022 4:04:00 PM	70460
Ethylbenzene	ND	0.046		mg/Kg	1	9/29/2022 4:04:00 PM	70460
Xylenes, Total	ND	0.093		mg/Kg	1	9/29/2022 4:04:00 PM	70460
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	9/29/2022 4:04:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209E05**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: RTP-6N/4
Project: Roy SWD 3
Collection Date: 9/23/2022 2:22:00 PM
Lab ID: 2209E05-032 **Matrix:** SOIL **Received Date:** 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	10/3/2022 2:48:25 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/29/2022 1:15:16 PM	70465
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/29/2022 1:15:16 PM	70465
Surr: DNOP	92.9	21-129		%Rec	1	9/29/2022 1:15:16 PM	70465
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/29/2022 4:24:00 PM	70460
Surr: BFB	102	37.7-212		%Rec	1	9/29/2022 4:24:00 PM	70460
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	9/29/2022 4:24:00 PM	70460
Toluene	ND	0.047		mg/Kg	1	9/29/2022 4:24:00 PM	70460
Ethylbenzene	ND	0.047		mg/Kg	1	9/29/2022 4:24:00 PM	70460
Xylenes, Total	ND	0.094		mg/Kg	1	9/29/2022 4:24:00 PM	70460
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	9/29/2022 4:24:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209E05**

13-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-70532**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **70532**	RunNo: **91459**
Prep Date: **9/30/2022**	Analysis Date: **10/1/2022**	SeqNo: **3275048** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-70532**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **70532**	RunNo: **91459**
Prep Date: **9/30/2022**	Analysis Date: **10/1/2022**	SeqNo: **3275049** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.4	90	110			

Sample ID: **MB-70539**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **70539**	RunNo: **91495**
Prep Date: **10/3/2022**	Analysis Date: **10/3/2022**	SeqNo: **3277087** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-70539**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **70539**	RunNo: **91495**
Prep Date: **10/3/2022**	Analysis Date: **10/3/2022**	SeqNo: **3277088** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.9	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209E05**
13-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-70465** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **70465** RunNo: **91420**
Prep Date: **9/28/2022** Analysis Date: **9/29/2022** SeqNo: **3273391** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		118	21	129			

Sample ID: **LCS-70465** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **70465** RunNo: **91420**
Prep Date: **9/28/2022** Analysis Date: **9/29/2022** SeqNo: **3273393** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.5	64.4	127			
Surr: DNOP	4.7		5.000		95.0	21	129			

Sample ID: **MB-70446** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **70446** RunNo: **91420**
Prep Date: **9/27/2022** Analysis Date: **9/30/2022** SeqNo: **3273492** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.4	21	129			

Sample ID: **LCS-70446** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **70446** RunNo: **91420**
Prep Date: **9/27/2022** Analysis Date: **9/30/2022** SeqNo: **3273494** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	50.00	0	93.5	64.4	127			
Surr: DNOP	4.5		5.000		90.2	21	129			

Sample ID: **LCS-70443** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **70443** RunNo: **91439**
Prep Date: **9/27/2022** Analysis Date: **9/30/2022** SeqNo: **3274443** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	15	50.00	0	74.5	64.4	127			
Surr: DNOP	4.2		5.000		84.9	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209E05**
13-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-70443** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **70443** RunNo: **91439**
Prep Date: **9/27/2022** Analysis Date: **9/30/2022** SeqNo: **3274446** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	14		10.00		137	21	129			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209E05**
13-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: **lcs-70439**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **70439**	RunNo: **91349**
Prep Date: **9/27/2022**	Analysis Date: **9/28/2022**	SeqNo: **3271475** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	72.3	137			
Surr: BFB	2200		1000		222	37.7	212			S

Sample ID: **mb-70439**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **70439**	RunNo: **91349**
Prep Date: **9/27/2022**	Analysis Date: **9/28/2022**	SeqNo: **3271477** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	37.7	212			

Sample ID: **LCS-70438**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **70438**	RunNo: **91394**
Prep Date: **9/27/2022**	Analysis Date: **9/28/2022**	SeqNo: **3272041** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.8	72.3	137			
Surr: BFB	1900		1000		191	37.7	212			

Sample ID: **mb-70438**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **70438**	RunNo: **91394**
Prep Date: **9/27/2022**	Analysis Date: **9/28/2022**	SeqNo: **3272043** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.8	37.7	212			

Sample ID: **lcs-70460**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **70460**	RunNo: **91419**
Prep Date: **9/28/2022**	Analysis Date: **9/29/2022**	SeqNo: **3272915** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	72.3	137			
Surr: BFB	2400		1000		237	37.7	212			S

Sample ID: **mb-70460**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **70460**	RunNo: **91419**
Prep Date: **9/28/2022**	Analysis Date: **9/29/2022**	SeqNo: **3272916** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209E05**
13-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: **mb-70460** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **70460** RunNo: **91419**
Prep Date: **9/28/2022** Analysis Date: **9/29/2022** SeqNo: **3272916** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209E05**
13-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: **lcs-70439**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **70439**	RunNo: **91349**
Prep Date: **9/27/2022**	Analysis Date: **9/28/2022**	SeqNo: **3271548** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	80	120			
Toluene	0.95	0.050	1.000	0	94.8	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.9	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.9	70	130			

Sample ID: **mb-70439**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **70439**	RunNo: **91349**
Prep Date: **9/27/2022**	Analysis Date: **9/28/2022**	SeqNo: **3271549** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	70	130			

Sample ID: **lcs-70438**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **70438**	RunNo: **91394**
Prep Date: **9/27/2022**	Analysis Date: **9/28/2022**	SeqNo: **3272469** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.9	80	120			
Toluene	0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Sample ID: **mb-70438**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **70438**	RunNo: **91394**
Prep Date: **9/27/2022**	Analysis Date: **9/28/2022**	SeqNo: **3272470** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209E05**
13-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: **lcs-70460** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **70460** RunNo: **91419**
Prep Date: **9/28/2022** Analysis Date: **9/29/2022** SeqNo: **3272939** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.4	80	120			
Toluene	0.98	0.050	1.000	0	98.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	70	130			

Sample ID: **mb-70460** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **70460** RunNo: **91419**
Prep Date: **9/28/2022** Analysis Date: **9/29/2022** SeqNo: **3272940** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG Work Order Number: 2209E05 RcptNo: 1

Received By: Joseph Alderette 9/27/2022 7:25:00 AM

Completed By: Sean Livingston 9/27/2022 8:19:41 AM

Reviewed By: KPG 9-27-22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JN 9/27/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good				

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time: EOB 5 DAY TAT
☑ Standard ☐ **Rush**_____

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 5.3 - 0 = 5.3 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2209E05	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9-23-22	1400	Soil	B-1	1x4oz Jar	ICE	001	X	X	X
	1402		B-2			002			
	1404		B-3			003			
	1406		B-4			004			
	1408		B-5			005			
	1410		B-6			006			
	1412		B-7			007			
	1414		B-8			008			
	1416		B-9			009			
	1418		B-10			010			
	1420		B-11			011			
↓	1422	↓	B-12	↓	↓	012	↓	↓	↓

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/26/22	1045	J. Martinez			9/26/22	1045
9/26/22	1900			courier	9.27.22	7:25

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other
■ **EDD** (Type) Excel

Turn-Around Time: EOG 5 DAY TAT
☐ Standard ☒ **Rush**

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 5.3-0=5.3°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9-23-22	1424	soil	B-13	1x4oz jar	ICE	013	X	X	X
	1426		B-14			014			
	1428		B-15			015			
	1430		B-16			016			
	1432		B-17			~~9/27/22~~ 017			
	1434		B-18			018			
	1436		B-19			019			
	1438		W-1			020			
	1440		W-2			021			
	1442		W-3			022			
	1444		W-4			023			
	1446		W-5			024			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
9/26/22	1045	J. Martinez			9/26/22	1045
9/26/22	1900			Courier	9.27.22	7:25

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Page 1441 of 2289

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

EOG 5 DAY TAT

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other
■ **EDD** (Type) Excel

☑ Standard ☐ **Rush**

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 5.3 - 0 = 5.3°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2209E0285	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9-23-22	1446	Soil	W-6	1/4 4oz Jar	ICE	025 001	X	X	X
	1448		W-7			026 002			
	1150		RTP-2W/2			027 003			
	1200		RTP-2W/4			028 004			
	1307		RTP-2N/1			029 005			
	1322		RTP-2N/4			030 006			
	1416		RTP-6N/1			031 007			
	1422		RTP-6N/4			032 008			

Sch 9/27/22

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/26/22	1045	J. Martinez			9/26/22	1045
9/26/22	1900			courier	9.27.22	7:25

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 19, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2210142

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/5/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2210142**
Date Reported: **10/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-8
Project: Roy SWD 3
Collection Date: 10/3/2022 12:20:00 PM
Lab ID: 2210142-001 **Matrix:** SOIL **Received Date:** 10/5/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	5800	300		mg/Kg	100	10/8/2022 5:02:47 PM	70675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/6/2022 2:19:36 PM	70635
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/6/2022 2:19:36 PM	70635
Surr: DNOP	76.2	21-129		%Rec	1	10/6/2022 2:19:36 PM	70635
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/6/2022 11:09:34 PM	70625
Surr: BFB	85.7	37.7-212		%Rec	1	10/6/2022 11:09:34 PM	70625
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	10/6/2022 11:09:34 PM	70625
Toluene	ND	0.049		mg/Kg	1	10/6/2022 11:09:34 PM	70625
Ethylbenzene	ND	0.049		mg/Kg	1	10/6/2022 11:09:34 PM	70625
Xylenes, Total	ND	0.097		mg/Kg	1	10/6/2022 11:09:34 PM	70625
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	10/6/2022 11:09:34 PM	70625

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2210142**
Date Reported: **10/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-9
Project: Roy SWD 3
Collection Date: 10/3/2022 2:40:00 PM
Lab ID: 2210142-002 **Matrix:** SOIL **Received Date:** 10/5/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	430	60		mg/Kg	20	10/7/2022 10:39:23 AM	70675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/6/2022 2:30:26 PM	70635
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/6/2022 2:30:26 PM	70635
Surr: DNOP	67.8	21-129		%Rec	1	10/6/2022 2:30:26 PM	70635
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/6/2022 11:33:06 PM	70625
Surr: BFB	88.3	37.7-212		%Rec	1	10/6/2022 11:33:06 PM	70625
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	10/6/2022 11:33:06 PM	70625
Toluene	ND	0.048		mg/Kg	1	10/6/2022 11:33:06 PM	70625
Ethylbenzene	ND	0.048		mg/Kg	1	10/6/2022 11:33:06 PM	70625
Xylenes, Total	ND	0.097		mg/Kg	1	10/6/2022 11:33:06 PM	70625
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	10/6/2022 11:33:06 PM	70625

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210142**
Date Reported: **10/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-10
Project: Roy SWD 3
Collection Date: 10/3/2022 2:44:00 PM
Lab ID: 2210142-003 **Matrix:** SOIL **Received Date:** 10/5/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	280	60		mg/Kg	20	10/7/2022 10:51:47 AM	70675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/6/2022 2:41:13 PM	70635
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/6/2022 2:41:13 PM	70635
Surr: DNOP	36.6	21-129		%Rec	1	10/6/2022 2:41:13 PM	70635
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/6/2022 11:56:33 PM	70625
Surr: BFB	86.6	37.7-212		%Rec	1	10/6/2022 11:56:33 PM	70625
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	10/6/2022 11:56:33 PM	70625
Toluene	ND	0.047		mg/Kg	1	10/6/2022 11:56:33 PM	70625
Ethylbenzene	ND	0.047		mg/Kg	1	10/6/2022 11:56:33 PM	70625
Xylenes, Total	ND	0.094		mg/Kg	1	10/6/2022 11:56:33 PM	70625
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	10/6/2022 11:56:33 PM	70625

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210142**
Date Reported: **10/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W-11
Project: Roy SWD 3 **Collection Date:** 10/3/2022 2:46:00 PM
Lab ID: 2210142-004 **Matrix:** SOIL **Received Date:** 10/5/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	330	60		mg/Kg	20	10/7/2022 11:04:11 AM	70675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	10/6/2022 2:52:02 PM	70635
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/6/2022 2:52:02 PM	70635
Surr: DNOP	58.6	21-129		%Rec	1	10/6/2022 2:52:02 PM	70635
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/7/2022 12:43:41 AM	70625
Surr: BFB	88.4	37.7-212		%Rec	1	10/7/2022 12:43:41 AM	70625
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	10/7/2022 12:43:41 AM	70625
Toluene	ND	0.048		mg/Kg	1	10/7/2022 12:43:41 AM	70625
Ethylbenzene	ND	0.048		mg/Kg	1	10/7/2022 12:43:41 AM	70625
Xylenes, Total	ND	0.096		mg/Kg	1	10/7/2022 12:43:41 AM	70625
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	10/7/2022 12:43:41 AM	70625

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210142**
Date Reported: **10/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-12
Project: Roy SWD 3
Collection Date: 10/3/2022 2:48:00 PM
Lab ID: 2210142-005 **Matrix:** SOIL **Received Date:** 10/5/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	240	59		mg/Kg	20	10/7/2022 12:31:01 PM	70675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/6/2022 3:02:46 PM	70635
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/6/2022 3:02:46 PM	70635
Surr: DNOP	77.0	21-129		%Rec	1	10/6/2022 3:02:46 PM	70635
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/7/2022 1:07:15 AM	70625
Surr: BFB	85.5	37.7-212		%Rec	1	10/7/2022 1:07:15 AM	70625
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	10/7/2022 1:07:15 AM	70625
Toluene	ND	0.049		mg/Kg	1	10/7/2022 1:07:15 AM	70625
Ethylbenzene	ND	0.049		mg/Kg	1	10/7/2022 1:07:15 AM	70625
Xylenes, Total	ND	0.097		mg/Kg	1	10/7/2022 1:07:15 AM	70625
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	10/7/2022 1:07:15 AM	70625

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210142**
Date Reported: **10/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W-13
Project: Roy SWD 3 **Collection Date:** 10/3/2022 2:52:00 PM
Lab ID: 2210142-006 **Matrix:** SOIL **Received Date:** 10/5/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	300	60		mg/Kg	20	10/7/2022 12:43:26 PM	70675
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/15/2022 7:17:35 PM	70841
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/15/2022 7:17:35 PM	70841
Surr: DNOP	85.7	21-129		%Rec	1	10/15/2022 7:17:35 PM	70841
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/6/2022 4:32:00 PM	70633
Surr: BFB	107	37.7-212		%Rec	1	10/6/2022 4:32:00 PM	70633
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	10/6/2022 4:32:00 PM	70633
Toluene	ND	0.050		mg/Kg	1	10/6/2022 4:32:00 PM	70633
Ethylbenzene	ND	0.050		mg/Kg	1	10/6/2022 4:32:00 PM	70633
Xylenes, Total	ND	0.099		mg/Kg	1	10/6/2022 4:32:00 PM	70633
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	10/6/2022 4:32:00 PM	70633

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2210142**
19-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-70675**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **70675**	RunNo: **91648**							
Prep Date: **10/7/2022**	Analysis Date: **10/7/2022**	SeqNo: **3283905**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-70675**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **70675**	RunNo: **91648**							
Prep Date: **10/7/2022**	Analysis Date: **10/7/2022**	SeqNo: **3283906**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210142**

19-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-70635** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **70635** RunNo: **91599**
Prep Date: **10/5/2022** Analysis Date: **10/6/2022** SeqNo: **3281585** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	15	50.00	0	71.2	64.4	127			
Surr: DNOP	3.5		5.000		71.0	21	129			

Sample ID: **MB-70635** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **70635** RunNo: **91599**
Prep Date: **10/5/2022** Analysis Date: **10/6/2022** SeqNo: **3281587** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		84.1	21	129			

Sample ID: **LCS-70653** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **70653** RunNo: **91633**
Prep Date: **10/6/2022** Analysis Date: **10/7/2022** SeqNo: **3283239** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.4		5.000		67.0	21	129			

Sample ID: **MB-70653** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **70653** RunNo: **91633**
Prep Date: **10/6/2022** Analysis Date: **10/7/2022** SeqNo: **3283241** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		82.0	21	129			

Sample ID: **LCS-70721** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **70721** RunNo: **91700**
Prep Date: **10/11/2022** Analysis Date: **10/11/2022** SeqNo: **3286198** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.3		5.000		66.3	21	129			

Sample ID: **MB-70721** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **70721** RunNo: **91700**
Prep Date: **10/11/2022** Analysis Date: **10/11/2022** SeqNo: **3286199** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3		10.00		82.6	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2210142**
19-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: **LCS-70717**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **70717**	RunNo: **91700**
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3288664** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		77.8	21	129			

Sample ID: **MB-70717**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70717**	RunNo: **91700**
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3288669** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		98.8	21	129			

Sample ID: **MB-70841**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70841**	RunNo: **91873**
Prep Date: **10/14/2022**	Analysis Date: **10/15/2022**	SeqNo: **3294777** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		118	21	129			

Sample ID: **LCS-70841**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **70841**	RunNo: **91873**
Prep Date: **10/14/2022**	Analysis Date: **10/15/2022**	SeqNo: **3294778** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	15	50.00	0	119	64.4	127			
Surr: DNOP	5.3		5.000		106	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2210142**
19-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: **LCS-70625** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **70625** RunNo: **91616**
Prep Date: **10/5/2022** Analysis Date: **10/6/2022** SeqNo: **3282365** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.4	72.3	137			
Surr: BFB	1900		1000		187	37.7	212			

Sample ID: **mb-70625** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **70625** RunNo: **91616**
Prep Date: **10/5/2022** Analysis Date: **10/6/2022** SeqNo: **3282366** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		91.0	37.7	212			

Sample ID: **lcs-70633** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **70633** RunNo: **91579**
Prep Date: **10/5/2022** Analysis Date: **10/6/2022** SeqNo: **3282524** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.8	72.3	137			
Surr: BFB	2200		1000		222	37.7	212			S

Sample ID: **mb-70633** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **70633** RunNo: **91579**
Prep Date: **10/5/2022** Analysis Date: **10/6/2022** SeqNo: **3282526** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2210142**
19-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: **lcs-70625** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **70625** RunNo: **91616**
Prep Date: **10/5/2022** Analysis Date: **10/6/2022** SeqNo: **3282419** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.0	80	120			
Toluene	0.87	0.050	1.000	0	86.7	80	120			
Ethylbenzene	0.88	0.050	1.000	0	87.8	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.7	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.1	70	130			

Sample ID: **mb-70625** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **70625** RunNo: **91616**
Prep Date: **10/5/2022** Analysis Date: **10/6/2022** SeqNo: **3282420** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.3	70	130			

Sample ID: **lcs-70633** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **70633** RunNo: **91579**
Prep Date: **10/5/2022** Analysis Date: **10/6/2022** SeqNo: **3282556** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.5	80	120			
Toluene	0.95	0.050	1.000	0	94.7	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: **mb-70633** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **70633** RunNo: **91579**
Prep Date: **10/5/2022** Analysis Date: **10/6/2022** SeqNo: **3282557** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG Work Order Number: 2210142 RcptNo: 1

Received By: Joseph Alderette 10/5/2022 7:25:00 AM

Completed By: Cheyenne Cason 10/5/2022 8:42:10 AM

Reviewed By: JR 10/5/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: KPG 10.05.22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good	Not Present			

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

EOG 5 DAY TAT

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

☑ Standard ☐ **Rush**

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.2 -0=5.2°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 221042	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10-3-22	1220	soil	W-8	1x4oz jar	ICE	001	X	X	X
	1440		W-9			002			
	1444		W-10			003			
	1446		W-11			004			
	1448		W-12			005			
	1452	↓	W-13	↓	↓	006	↓	↓	↓

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10-4-22	10:48	F. Martinez	W. Kierdorf		10/4/22	10:48
10/4/22	1120	W. Kierdorf			10/4/22	1120

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

10/4/22 1900 [illegible] courier 10.5.22 7:25

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 20, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2210279

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 24 sample(s) on 10/6/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-20
Project: Roy SWD 3
Collection Date: 10/4/2022 11:40:00 AM
Lab ID: 2210279-001 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	400	61		mg/Kg	20	10/14/2022 2:16:41 PM	70743
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/12/2022 5:24:59 AM	70711
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/12/2022 5:24:59 AM	70711
Surr: DNOP	65.5	21-129		%Rec	1	10/12/2022 5:24:59 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/11/2022 9:31:00 AM	70706
Surr: BFB	92.9	37.7-212		%Rec	1	10/11/2022 9:31:00 AM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	10/11/2022 9:31:00 AM	70706
Toluene	ND	0.050		mg/Kg	1	10/11/2022 9:31:00 AM	70706
Ethylbenzene	ND	0.050		mg/Kg	1	10/11/2022 9:31:00 AM	70706
Xylenes, Total	ND	0.10		mg/Kg	1	10/11/2022 9:31:00 AM	70706
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	10/11/2022 9:31:00 AM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-21
Project: Roy SWD 3
Collection Date: 10/4/2022 11:42:00 AM
Lab ID: 2210279-002 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	970	60		mg/Kg	20	10/14/2022 2:29:05 PM	70743
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/12/2022 5:56:20 AM	70711
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/12/2022 5:56:20 AM	70711
Surr: DNOP	76.6	21-129		%Rec	1	10/12/2022 5:56:20 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2022 10:30:00 AM	70706
Surr: BFB	97.6	37.7-212		%Rec	1	10/11/2022 10:30:00 AM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	10/11/2022 10:30:00 AM	70706
Toluene	ND	0.049		mg/Kg	1	10/11/2022 10:30:00 AM	70706
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2022 10:30:00 AM	70706
Xylenes, Total	ND	0.098		mg/Kg	1	10/11/2022 10:30:00 AM	70706
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	10/11/2022 10:30:00 AM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-22
Project: Roy SWD 3
Collection Date: 10/4/2022 11:44:00 AM
Lab ID: 2210279-003 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	460	60		mg/Kg	20	10/14/2022 2:41:30 PM	70743
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/12/2022 6:06:47 AM	70711
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/12/2022 6:06:47 AM	70711
Surr: DNOP	67.2	21-129		%Rec	1	10/12/2022 6:06:47 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2022 11:29:00 AM	70706
Surr: BFB	93.3	37.7-212		%Rec	1	10/11/2022 11:29:00 AM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	10/11/2022 11:29:00 AM	70706
Toluene	ND	0.049		mg/Kg	1	10/11/2022 11:29:00 AM	70706
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2022 11:29:00 AM	70706
Xylenes, Total	ND	0.098		mg/Kg	1	10/11/2022 11:29:00 AM	70706
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	10/11/2022 11:29:00 AM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-23
Project: Roy SWD 3
Collection Date: 10/4/2022 11:46:00 AM
Lab ID: 2210279-004 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1200	59		mg/Kg	20	10/14/2022 2:53:55 PM	70743
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/12/2022 6:17:14 AM	70711
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/12/2022 6:17:14 AM	70711
Surr: DNOP	76.8	21-129		%Rec	1	10/12/2022 6:17:14 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/11/2022 11:49:00 AM	70706
Surr: BFB	94.2	37.7-212		%Rec	1	10/11/2022 11:49:00 AM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	10/11/2022 11:49:00 AM	70706
Toluene	ND	0.050		mg/Kg	1	10/11/2022 11:49:00 AM	70706
Ethylbenzene	ND	0.050		mg/Kg	1	10/11/2022 11:49:00 AM	70706
Xylenes, Total	ND	0.099		mg/Kg	1	10/11/2022 11:49:00 AM	70706
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	10/11/2022 11:49:00 AM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-24
Project: Roy SWD 3
Collection Date: 10/4/2022 11:48:00 AM
Lab ID: 2210279-005 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	470	60		mg/Kg	20	10/14/2022 3:06:19 PM	70743
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/12/2022 6:27:43 AM	70711
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/12/2022 6:27:43 AM	70711
Surr: DNOP	75.4	21-129		%Rec	1	10/12/2022 6:27:43 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/11/2022 12:08:00 PM	70706
Surr: BFB	88.6	37.7-212		%Rec	1	10/11/2022 12:08:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	10/11/2022 12:08:00 PM	70706
Toluene	ND	0.047		mg/Kg	1	10/11/2022 12:08:00 PM	70706
Ethylbenzene	ND	0.047		mg/Kg	1	10/11/2022 12:08:00 PM	70706
Xylenes, Total	ND	0.094		mg/Kg	1	10/11/2022 12:08:00 PM	70706
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	10/11/2022 12:08:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-25
Project: Roy SWD 3
Collection Date: 10/4/2022 11:50:00 AM
Lab ID: 2210279-006 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	990	60		mg/Kg	20	10/14/2022 3:18:43 PM	70743
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/12/2022 6:38:12 AM	70711
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/12/2022 6:38:12 AM	70711
Surr: DNOP	91.3	21-129		%Rec	1	10/12/2022 6:38:12 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/11/2022 12:28:00 PM	70706
Surr: BFB	96.8	37.7-212		%Rec	1	10/11/2022 12:28:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	10/11/2022 12:28:00 PM	70706
Toluene	ND	0.050		mg/Kg	1	10/11/2022 12:28:00 PM	70706
Ethylbenzene	ND	0.050		mg/Kg	1	10/11/2022 12:28:00 PM	70706
Xylenes, Total	ND	0.099		mg/Kg	1	10/11/2022 12:28:00 PM	70706
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	10/11/2022 12:28:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-26
Project: Roy SWD 3
Collection Date: 10/4/2022 11:52:00 AM
Lab ID: 2210279-007 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	450	59		mg/Kg	20	10/14/2022 3:31:08 PM	70743
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/12/2022 6:48:43 AM	70711
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/12/2022 6:48:43 AM	70711
Surr: DNOP	57.0	21-129		%Rec	1	10/12/2022 6:48:43 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/11/2022 12:48:00 PM	70706
Surr: BFB	95.0	37.7-212		%Rec	1	10/11/2022 12:48:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	10/11/2022 12:48:00 PM	70706
Toluene	ND	0.048		mg/Kg	1	10/11/2022 12:48:00 PM	70706
Ethylbenzene	ND	0.048		mg/Kg	1	10/11/2022 12:48:00 PM	70706
Xylenes, Total	ND	0.096		mg/Kg	1	10/11/2022 12:48:00 PM	70706
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	10/11/2022 12:48:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-27
Project: Roy SWD 3
Collection Date: 10/4/2022 11:54:00 AM
Lab ID: 2210279-008 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	2200	150		mg/Kg	50	10/14/2022 3:43:33 PM	70743
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	10/12/2022 6:59:16 AM	70711
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	10/12/2022 6:59:16 AM	70711
Surr: DNOP	67.5	21-129		%Rec	1	10/12/2022 6:59:16 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2022 1:07:00 PM	70706
Surr: BFB	93.3	37.7-212		%Rec	1	10/11/2022 1:07:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	10/11/2022 1:07:00 PM	70706
Toluene	ND	0.049		mg/Kg	1	10/11/2022 1:07:00 PM	70706
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2022 1:07:00 PM	70706
Xylenes, Total	ND	0.099		mg/Kg	1	10/11/2022 1:07:00 PM	70706
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	10/11/2022 1:07:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-28
Project: Roy SWD 3
Collection Date: 10/4/2022 12:40:00 PM
Lab ID: 2210279-009 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	460	60		mg/Kg	20	10/14/2022 4:20:46 PM	70743
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/12/2022 7:09:50 AM	70711
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/12/2022 7:09:50 AM	70711
Surr: DNOP	77.5	21-129		%Rec	1	10/12/2022 7:09:50 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2022 1:27:00 PM	70706
Surr: BFB	93.5	37.7-212		%Rec	1	10/11/2022 1:27:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	10/11/2022 1:27:00 PM	70706
Toluene	ND	0.049		mg/Kg	1	10/11/2022 1:27:00 PM	70706
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2022 1:27:00 PM	70706
Xylenes, Total	ND	0.098		mg/Kg	1	10/11/2022 1:27:00 PM	70706
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	10/11/2022 1:27:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-29
Project: Roy SWD 3
Collection Date: 10/4/2022 12:42:00 PM
Lab ID: 2210279-010 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1100	60		mg/Kg	20	10/14/2022 4:33:10 PM	70743
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/12/2022 7:20:25 AM	70711
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/12/2022 7:20:25 AM	70711
Surr: DNOP	74.6	21-129		%Rec	1	10/12/2022 7:20:25 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2022 1:47:00 PM	70706
Surr: BFB	94.5	37.7-212		%Rec	1	10/11/2022 1:47:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	10/11/2022 1:47:00 PM	70706
Toluene	ND	0.049		mg/Kg	1	10/11/2022 1:47:00 PM	70706
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2022 1:47:00 PM	70706
Xylenes, Total	ND	0.099		mg/Kg	1	10/11/2022 1:47:00 PM	70706
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	10/11/2022 1:47:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-30
Project: Roy SWD 3
Collection Date: 10/4/2022 12:46:00 PM
Lab ID: 2210279-011 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	440	60		mg/Kg	20	10/11/2022 8:52:44 PM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/12/2022 7:31:01 AM	70711
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/12/2022 7:31:01 AM	70711
Surr: DNOP	52.8	21-129		%Rec	1	10/12/2022 7:31:01 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/11/2022 2:26:00 PM	70706
Surr: BFB	91.3	37.7-212		%Rec	1	10/11/2022 2:26:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	10/11/2022 2:26:00 PM	70706
Toluene	ND	0.047		mg/Kg	1	10/11/2022 2:26:00 PM	70706
Ethylbenzene	ND	0.047		mg/Kg	1	10/11/2022 2:26:00 PM	70706
Xylenes, Total	ND	0.094		mg/Kg	1	10/11/2022 2:26:00 PM	70706
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	10/11/2022 2:26:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-31
Project: Roy SWD 3
Collection Date: 10/4/2022 1:00:00 PM
Lab ID: 2210279-012
Matrix: SOIL
Received Date: 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	700	61		mg/Kg	20	10/11/2022 9:29:58 PM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/12/2022 7:41:38 AM	70711
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/12/2022 7:41:38 AM	70711
Surr: DNOP	73.5	21-129		%Rec	1	10/12/2022 7:41:38 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2022 2:46:00 PM	70706
Surr: BFB	91.4	37.7-212		%Rec	1	10/11/2022 2:46:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025		mg/Kg	1	10/11/2022 2:46:00 PM	70706
Toluene	ND	0.049		mg/Kg	1	10/11/2022 2:46:00 PM	70706
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2022 2:46:00 PM	70706
Xylenes, Total	ND	0.098		mg/Kg	1	10/11/2022 2:46:00 PM	70706
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	10/11/2022 2:46:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-32
Project: Roy SWD 3
Collection Date: 10/4/2022 1:02:00 PM
Lab ID: 2210279-013 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	480	60		mg/Kg	20	10/11/2022 9:42:23 PM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/12/2022 7:52:17 AM	70711
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/12/2022 7:52:17 AM	70711
Surr: DNOP	69.6	21-129		%Rec	1	10/12/2022 7:52:17 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2022 3:05:00 PM	70706
Surr: BFB	89.1	37.7-212		%Rec	1	10/11/2022 3:05:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	10/11/2022 3:05:00 PM	70706
Toluene	ND	0.049		mg/Kg	1	10/11/2022 3:05:00 PM	70706
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2022 3:05:00 PM	70706
Xylenes, Total	ND	0.097		mg/Kg	1	10/11/2022 3:05:00 PM	70706
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	10/11/2022 3:05:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-33
Project: Roy SWD 3
Collection Date: 10/4/2022 1:04:00 PM
Lab ID: 2210279-014 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	3800	150		mg/Kg	50	10/19/2022 8:42:02 PM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/12/2022 8:03:07 AM	70711
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/12/2022 8:03:07 AM	70711
Surr: DNOP	66.4	21-129		%Rec	1	10/12/2022 8:03:07 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/11/2022 3:25:00 PM	70706
Surr: BFB	96.7	37.7-212		%Rec	1	10/11/2022 3:25:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	10/11/2022 3:25:00 PM	70706
Toluene	ND	0.048		mg/Kg	1	10/11/2022 3:25:00 PM	70706
Ethylbenzene	ND	0.048		mg/Kg	1	10/11/2022 3:25:00 PM	70706
Xylenes, Total	ND	0.097		mg/Kg	1	10/11/2022 3:25:00 PM	70706
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	10/11/2022 3:25:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-34
Project: Roy SWD 3
Collection Date: 10/4/2022 1:06:00 PM
Lab ID: 2210279-015 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	450	60		mg/Kg	20	10/11/2022 10:07:13 PM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/12/2022 8:14:14 AM	70711
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/12/2022 8:14:14 AM	70711
Surr: DNOP	69.0	21-129		%Rec	1	10/12/2022 8:14:14 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/11/2022 3:44:00 PM	70706
Surr: BFB	96.1	37.7-212		%Rec	1	10/11/2022 3:44:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	10/11/2022 3:44:00 PM	70706
Toluene	ND	0.048		mg/Kg	1	10/11/2022 3:44:00 PM	70706
Ethylbenzene	ND	0.048		mg/Kg	1	10/11/2022 3:44:00 PM	70706
Xylenes, Total	ND	0.096		mg/Kg	1	10/11/2022 3:44:00 PM	70706
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	10/11/2022 3:44:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-35
Project: Roy SWD 3
Collection Date: 10/4/2022 1:08:00 PM
Lab ID: 2210279-016 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1700	61		mg/Kg	20	10/11/2022 10:19:37 PM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	10/12/2022 8:25:03 AM	70711
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/12/2022 8:25:03 AM	70711
Surr: DNOP	74.7	21-129		%Rec	1	10/12/2022 8:25:03 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2022 4:04:00 PM	70706
Surr: BFB	92.2	37.7-212		%Rec	1	10/11/2022 4:04:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	10/11/2022 4:04:00 PM	70706
Toluene	ND	0.049		mg/Kg	1	10/11/2022 4:04:00 PM	70706
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2022 4:04:00 PM	70706
Xylenes, Total	ND	0.098		mg/Kg	1	10/11/2022 4:04:00 PM	70706
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	10/11/2022 4:04:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-36
Project: Roy SWD 3
Collection Date: 10/4/2022 1:20:00 PM
Lab ID: 2210279-017 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	2300	60		mg/Kg	20	10/11/2022 10:32:02 PM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/12/2022 8:35:50 AM	70711
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/12/2022 8:35:50 AM	70711
Surr: DNOP	62.6	21-129		%Rec	1	10/12/2022 8:35:50 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2022 4:24:00 PM	70706
Surr: BFB	93.6	37.7-212		%Rec	1	10/11/2022 4:24:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	10/11/2022 4:24:00 PM	70706
Toluene	ND	0.049		mg/Kg	1	10/11/2022 4:24:00 PM	70706
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2022 4:24:00 PM	70706
Xylenes, Total	ND	0.098		mg/Kg	1	10/11/2022 4:24:00 PM	70706
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	10/11/2022 4:24:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-37
Project: Roy SWD 3
Collection Date: 10/4/2022 1:22:00 PM
Lab ID: 2210279-018 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	2200	60		mg/Kg	20	10/11/2022 10:44:27 PM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/12/2022 8:46:36 AM	70711
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/12/2022 8:46:36 AM	70711
Surr: DNOP	70.4	21-129		%Rec	1	10/12/2022 8:46:36 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2022 4:44:00 PM	70706
Surr: BFB	95.0	37.7-212		%Rec	1	10/11/2022 4:44:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	10/11/2022 4:44:00 PM	70706
Toluene	ND	0.049		mg/Kg	1	10/11/2022 4:44:00 PM	70706
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2022 4:44:00 PM	70706
Xylenes, Total	ND	0.098		mg/Kg	1	10/11/2022 4:44:00 PM	70706
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	10/11/2022 4:44:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-38
Project: Roy SWD 3
Collection Date: 10/4/2022 1:24:00 PM
Lab ID: 2210279-019
Matrix: SOIL
Received Date: 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	220	60		mg/Kg	20	10/11/2022 11:21:42 PM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	10/12/2022 8:57:22 AM	70711
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	10/12/2022 8:57:22 AM	70711
Surr: DNOP	65.5	21-129		%Rec	1	10/12/2022 8:57:22 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/11/2022 5:03:00 PM	70706
Surr: BFB	94.1	37.7-212		%Rec	1	10/11/2022 5:03:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	10/11/2022 5:03:00 PM	70706
Toluene	ND	0.050		mg/Kg	1	10/11/2022 5:03:00 PM	70706
Ethylbenzene	ND	0.050		mg/Kg	1	10/11/2022 5:03:00 PM	70706
Xylenes, Total	ND	0.10		mg/Kg	1	10/11/2022 5:03:00 PM	70706
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	10/11/2022 5:03:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-39
Project: Roy SWD 3
Collection Date: 10/4/2022 1:26:00 PM
Lab ID: 2210279-020
Matrix: SOIL
Received Date: 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	4900	300		mg/Kg	100	10/19/2022 8:54:27 PM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/12/2022 9:08:09 AM	70711
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/12/2022 9:08:09 AM	70711
Surr: DNOP	70.6	21-129		%Rec	1	10/12/2022 9:08:09 AM	70711
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/11/2022 5:23:00 PM	70706
Surr: BFB	93.8	37.7-212		%Rec	1	10/11/2022 5:23:00 PM	70706
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	10/11/2022 5:23:00 PM	70706
Toluene	ND	0.047		mg/Kg	1	10/11/2022 5:23:00 PM	70706
Ethylbenzene	ND	0.047		mg/Kg	1	10/11/2022 5:23:00 PM	70706
Xylenes, Total	ND	0.095		mg/Kg	1	10/11/2022 5:23:00 PM	70706
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	10/11/2022 5:23:00 PM	70706

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-40
Project: Roy SWD 3
Collection Date: 10/4/2022 1:28:00 PM
Lab ID: 2210279-021
Matrix: SOIL
Received Date: 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	4900	150		mg/Kg	50	10/19/2022 9:31:39 PM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/12/2022 9:18:54 AM	70715
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/12/2022 9:18:54 AM	70715
Surr: DNOP	81.4	21-129		%Rec	1	10/12/2022 9:18:54 AM	70715
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/11/2022 7:21:00 PM	70709
Surr: BFB	93.9	37.7-212		%Rec	1	10/11/2022 7:21:00 PM	70709
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	10/11/2022 7:21:00 PM	70709
Toluene	ND	0.048		mg/Kg	1	10/11/2022 7:21:00 PM	70709
Ethylbenzene	ND	0.048		mg/Kg	1	10/11/2022 7:21:00 PM	70709
Xylenes, Total	ND	0.095		mg/Kg	1	10/11/2022 7:21:00 PM	70709
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	10/11/2022 7:21:00 PM	70709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-41
Project: Roy SWD 3
Collection Date: 10/4/2022 1:30:00 PM
Lab ID: 2210279-022 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	220	61		mg/Kg	20	10/11/2022 11:58:56 PM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/12/2022 9:51:08 AM	70715
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/12/2022 9:51:08 AM	70715
Surr: DNOP	41.9	21-129		%Rec	1	10/12/2022 9:51:08 AM	70715
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/11/2022 8:20:00 PM	70709
Surr: BFB	93.2	37.7-212		%Rec	1	10/11/2022 8:20:00 PM	70709
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	10/11/2022 8:20:00 PM	70709
Toluene	ND	0.048		mg/Kg	1	10/11/2022 8:20:00 PM	70709
Ethylbenzene	ND	0.048		mg/Kg	1	10/11/2022 8:20:00 PM	70709
Xylenes, Total	ND	0.096		mg/Kg	1	10/11/2022 8:20:00 PM	70709
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	10/11/2022 8:20:00 PM	70709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-42
Project: Roy SWD 3
Collection Date: 10/4/2022 1:32:00 PM
Lab ID: 2210279-023 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	3100	150		mg/Kg	50	10/19/2022 9:44:04 PM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/12/2022 10:01:53 AM	70715
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/12/2022 10:01:53 AM	70715
Surr: DNOP	66.2	21-129		%Rec	1	10/12/2022 10:01:53 AM	70715
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2022 9:19:00 PM	70709
Surr: BFB	93.3	37.7-212		%Rec	1	10/11/2022 9:19:00 PM	70709
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	10/11/2022 9:19:00 PM	70709
Toluene	ND	0.049		mg/Kg	1	10/11/2022 9:19:00 PM	70709
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2022 9:19:00 PM	70709
Xylenes, Total	ND	0.098		mg/Kg	1	10/11/2022 9:19:00 PM	70709
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	10/11/2022 9:19:00 PM	70709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210279**
Date Reported: **10/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-43
Project: Roy SWD 3
Collection Date: 10/4/2022 1:34:00 PM
Lab ID: 2210279-024 **Matrix:** SOIL **Received Date:** 10/6/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	510	60		mg/Kg	20	10/12/2022 12:23:46 AM	70744
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/12/2022 10:12:37 AM	70715
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/12/2022 10:12:37 AM	70715
Surr: DNOP	76.7	21-129		%Rec	1	10/12/2022 10:12:37 AM	70715
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2022 9:38:00 PM	70709
Surr: BFB	88.1	37.7-212		%Rec	1	10/11/2022 9:38:00 PM	70709
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	10/11/2022 9:38:00 PM	70709
Toluene	ND	0.049		mg/Kg	1	10/11/2022 9:38:00 PM	70709
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2022 9:38:00 PM	70709
Xylenes, Total	ND	0.099		mg/Kg	1	10/11/2022 9:38:00 PM	70709
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	10/11/2022 9:38:00 PM	70709

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210279**

20-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-70744**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **70744**	RunNo: **91695**
Prep Date: **10/11/2022**	Analysis Date: **10/11/2022**	SeqNo: **3288723** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-70744**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **70744**	RunNo: **91695**
Prep Date: **10/11/2022**	Analysis Date: **10/11/2022**	SeqNo: **3288724** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	90	110			

Sample ID: **MB-70743**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **70743**	RunNo: **91834**
Prep Date: **10/11/2022**	Analysis Date: **10/14/2022**	SeqNo: **3293086** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-70743**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **70743**	RunNo: **91834**
Prep Date: **10/11/2022**	Analysis Date: **10/14/2022**	SeqNo: **3293087** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210279**

20-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-70721**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **70721**	RunNo: **91700**							
Prep Date: **10/11/2022**	Analysis Date: **10/11/2022**	SeqNo: **3286198**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.3		5.000		66.3	21	129			

Sample ID: **MB-70721**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **70721**	RunNo: **91700**							
Prep Date: **10/11/2022**	Analysis Date: **10/11/2022**	SeqNo: **3286199**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3		10.00		82.6	21	129			

Sample ID: **LCS-70711**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **70711**	RunNo: **91700**							
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3288662**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	33	15	50.00	0	65.4	64.4	127			
Surr: DNOP	3.6		5.000		71.2	21	129			

Sample ID: **LCS-70715**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **70715**	RunNo: **91700**							
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3288663**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	32	15	50.00	0	64.5	64.4	127			
Surr: DNOP	3.4		5.000		68.3	21	129			

Sample ID: **MB-70711**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **70711**	RunNo: **91700**							
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3288667**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.5	21	129			

Sample ID: **MB-70715**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **70715**	RunNo: **91700**							
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3288668**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2210279**
20-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-70715**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70715**	RunNo: **91700**
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3288668** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.7	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210279**

20-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-70706**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **70706**	RunNo: **91709**
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3286496** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	82.6	72.3	137			
Surr: BFB	2000		1000		198	37.7	212			

Sample ID: **mb-70706**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **70706**	RunNo: **91709**
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3286497** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.8	37.7	212			

Sample ID: **lcs-70709**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **70709**	RunNo: **91709**
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3286520** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.4	72.3	137			
Surr: BFB	1900		1000		194	37.7	212			

Sample ID: **mb-70709**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **70709**	RunNo: **91709**
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3286521** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.9	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210279**

20-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-70706**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **70706**	RunNo: **91709**
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3286544** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.9	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.4	70	130			

Sample ID: **mb-70706**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **70706**	RunNo: **91709**
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3286545** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	70	130			

Sample ID: **lcs-70709**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **70709**	RunNo: **91709**
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3286568** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.1	0.050	1.000	0	105	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.2	70	130			

Sample ID: **mb-70709**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **70709**	RunNo: **91709**
Prep Date: **10/10/2022**	Analysis Date: **10/11/2022**	SeqNo: **3286569** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2210279 | RcptNo: 1

Received By: Juan Rojas 10/6/2022 7:15:00 AM

Completed By: Sean Livingston 10/6/2022 8:04:32 AM

Reviewed By: JN 10/6/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: KPG 10-6-22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good				

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

EOG 5 DAY TAT

Client: EOG-Artesia / Ranger Env.	☑ Standard ☒ Rush
Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Project Name: Roy SWD #3
Ranger: PO Box 201179, Austin TX 78720	Project #: 5375
Phone #: 521-335-1785	
email or Fax#: Will@RangerEnv.com	Project Manager: W. Kierdorf
QA/QC Package: ■ Standard ☐ Level 4 (Full Validation)	
Accreditation: ☐ Az Compliance ■ NELAC ☐ Other	Sampler: J. Martinez
■ EDD (Type) Excel	On Ice: ☒ Yes ☐ No
	# of Coolers: 1
	Cooler Temp(including CF): 5.4+0.1=5.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2210279	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10-4-22	1140	Soil	B-20	1x4oz Jar	ICE	001	X	X	X
	1142		B-21			002			
	1144		B-22			003			
	1146		B-23			004			
	1148		B-24			005			
	1150		B-25			006			
	1152		B-26			007			
	1154		B-27			008			
	1240		B-28			009			
	1242		B-29			010			
	1246		B-30			011			
	1300		B-31			012			

Analysis Request

Date	Time	Relinquished by	Received by	Via	Date	Time
10-5-22	0812	J. Martinez				
10/5/22	1700			Courier	10/6/22	7:45

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

EOG 5 DAY TAT

Client: EOG-Artesia / Ranger Env.	☑ Standard ☒ Rush
Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Project Name: Roy SWD #3
Ranger: PO Box 201179, Austin TX 78720	Project #: 5375
Phone #: 521-335-1785	
email or Fax#: Will@RangerEnv.com	Project Manager: W. Kierdorf
QA/QC Package: ■ Standard ☐ Level 4 (Full Validation)	
Accreditation: ☐ Az Compliance ■ NELAC ☐ Other	Sampler: J. Martinez
■ EDD (Type) Excel	On Ice: ☑ Yes ☐ No
	# of Coolers: 1
	Cooler Temp(including CF): 5.4+0.1=5.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10-4-22	1302	Soil	B-32	1x4oz Jar	ICE	013	X	X	X
	1304		B-33			014			
	1306		B-34			015			
	1308		B-35			016			
	1320		B-36			017			
	1322		B-37			018			
	1324		B-38			019			
	1326		B-39			020			
	1328		B-40			021			
	1330		B-41			022			
	1332		B-42			023			
	1334		B-43			024			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10-5-22	0812	J. Martinez			10/5/22	8:18
10/5/22	1900				10/6/22	7:15

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 25, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: ROY SWD 3 OrderNo.: 2210716

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/14/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2210716**
Date Reported: **10/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-1
Project: ROY SWD 3
Collection Date: 10/12/2022 9:30:00 AM
Lab ID: 2210716-001 **Matrix:** SOIL **Received Date:** 10/14/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	70	60		mg/Kg	20	10/21/2022 1:42:12 AM	70971
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/18/2022 10:52:04 AM	70879
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2022 10:52:04 AM	70879
Surr: DNOP	143	21-129	S	%Rec	1	10/18/2022 10:52:04 AM	70879
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/19/2022 3:38:33 AM	70842
Surr: BFB	87.1	37.7-212		%Rec	1	10/19/2022 3:38:33 AM	70842
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/19/2022 3:38:33 AM	70842
Toluene	ND	0.048		mg/Kg	1	10/19/2022 3:38:33 AM	70842
Ethylbenzene	ND	0.048		mg/Kg	1	10/19/2022 3:38:33 AM	70842
Xylenes, Total	ND	0.097		mg/Kg	1	10/19/2022 3:38:33 AM	70842
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	10/19/2022 3:38:33 AM	70842

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210716**
Date Reported: **10/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-6
Project: ROY SWD 3
Collection Date: 10/12/2022 9:54:00 AM
Lab ID: 2210716-002 **Matrix:** SOIL **Received Date:** 10/14/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	260	60		mg/Kg	20	10/21/2022 2:19:15 AM	70971
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/18/2022 11:02:33 AM	70879
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/18/2022 11:02:33 AM	70879
Surr: DNOP	175	21-129	S	%Rec	1	10/18/2022 11:02:33 AM	70879
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/19/2022 4:02:04 AM	70842
Surr: BFB	85.8	37.7-212		%Rec	1	10/19/2022 4:02:04 AM	70842
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/19/2022 4:02:04 AM	70842
Toluene	ND	0.049		mg/Kg	1	10/19/2022 4:02:04 AM	70842
Ethylbenzene	ND	0.049		mg/Kg	1	10/19/2022 4:02:04 AM	70842
Xylenes, Total	ND	0.099		mg/Kg	1	10/19/2022 4:02:04 AM	70842
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	10/19/2022 4:02:04 AM	70842

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210716**
Date Reported: **10/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-7
Project: ROY SWD 3
Collection Date: 10/12/2022 9:58:00 AM
Lab ID: 2210716-003 **Matrix:** SOIL **Received Date:** 10/14/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	210	60		mg/Kg	20	10/21/2022 2:31:35 AM	70971
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/18/2022 11:13:03 AM	70879
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/18/2022 11:13:03 AM	70879
Surr: DNOP	148	21-129	S	%Rec	1	10/18/2022 11:13:03 AM	70879
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/19/2022 4:25:37 AM	70842
Surr: BFB	86.8	37.7-212		%Rec	1	10/19/2022 4:25:37 AM	70842
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/19/2022 4:25:37 AM	70842
Toluene	ND	0.049		mg/Kg	1	10/19/2022 4:25:37 AM	70842
Ethylbenzene	ND	0.049		mg/Kg	1	10/19/2022 4:25:37 AM	70842
Xylenes, Total	ND	0.097		mg/Kg	1	10/19/2022 4:25:37 AM	70842
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	10/19/2022 4:25:37 AM	70842

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210716**
Date Reported: **10/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-2
Project: ROY SWD 3
Collection Date: 10/12/2022 2:22:00 PM
Lab ID: 2210716-004 **Matrix:** SOIL **Received Date:** 10/14/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	620	60		mg/Kg	20	10/21/2022 2:43:56 AM	70971
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/18/2022 11:23:33 AM	70879
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2022 11:23:33 AM	70879
Surr: DNOP	125	21-129		%Rec	1	10/18/2022 11:23:33 AM	70879
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/19/2022 4:49:10 AM	70842
Surr: BFB	87.8	37.7-212		%Rec	1	10/19/2022 4:49:10 AM	70842
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/19/2022 4:49:10 AM	70842
Toluene	ND	0.048		mg/Kg	1	10/19/2022 4:49:10 AM	70842
Ethylbenzene	ND	0.048		mg/Kg	1	10/19/2022 4:49:10 AM	70842
Xylenes, Total	ND	0.096		mg/Kg	1	10/19/2022 4:49:10 AM	70842
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	10/19/2022 4:49:10 AM	70842

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2210716**
Date Reported: **10/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-5
Project: ROY SWD 3
Collection Date: 10/12/2022 2:28:00 PM
Lab ID: 2210716-005 **Matrix:** SOIL **Received Date:** 10/14/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	10/21/2022 2:56:17 AM	70971
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/18/2022 11:34:09 AM	70879
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/18/2022 11:34:09 AM	70879
Surr: DNOP	124	21-129		%Rec	1	10/18/2022 11:34:09 AM	70879
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/19/2022 8:21:20 PM	70842
Surr: BFB	90.9	37.7-212		%Rec	1	10/19/2022 8:21:20 PM	70842
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/19/2022 8:21:20 PM	70842
Toluene	ND	0.048		mg/Kg	1	10/19/2022 8:21:20 PM	70842
Ethylbenzene	ND	0.048		mg/Kg	1	10/19/2022 8:21:20 PM	70842
Xylenes, Total	ND	0.097		mg/Kg	1	10/19/2022 8:21:20 PM	70842
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	10/19/2022 8:21:20 PM	70842

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2210716**
25-Oct-22

Client: EOG
Project: ROY SWD 3

Sample ID: **MB-70971**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **70971**	RunNo: **91958**							
Prep Date: **10/20/2022**	Analysis Date: **10/20/2022**	SeqNo: **3299575**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-70971**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **70971**	RunNo: **91958**							
Prep Date: **10/20/2022**	Analysis Date: **10/20/2022**	SeqNo: **3299576**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2210716**
25-Oct-22

Client: EOG
Project: ROY SWD 3

Sample ID: **LCS-70879** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **70879** RunNo: **91878**
Prep Date: **10/17/2022** Analysis Date: **10/18/2022** SeqNo: **3294924** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	15	50.00	0	114	64.4	127			
Surr: DNOP	6.0		5.000		121	21	129			

Sample ID: **LCSD-70879** SampType: **LCSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS02** Batch ID: **70879** RunNo: **91878**
Prep Date: **10/17/2022** Analysis Date: **10/18/2022** SeqNo: **3294925** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	50.00	0	107	64.4	127	6.07	20	
Surr: DNOP	5.7		5.000		113	21	129	0	0	

Sample ID: **MB-70879** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **70879** RunNo: **91878**
Prep Date: **10/17/2022** Analysis Date: **10/18/2022** SeqNo: **3294926** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	14		10.00		142	21	129			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2210716**
25-Oct-22

Client: EOG
Project: ROY SWD 3

Sample ID: **mb-70842**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **70842**	RunNo: **91887**
Prep Date: **10/14/2022**	Analysis Date: **10/19/2022**	SeqNo: **3295395** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.0	37.7	212			

Sample ID: **lcs-70842**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **70842**	RunNo: **91887**
Prep Date: **10/14/2022**	Analysis Date: **10/18/2022**	SeqNo: **3295396** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	72.3	137			
Surr: BFB	2300		1000		229	37.7	212			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2210716**
25-Oct-22

Client: EOG
Project: ROY SWD 3

Sample ID: **mb-70842**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **70842**	RunNo: **91887**
Prep Date: **10/14/2022**	Analysis Date: **10/19/2022**	SeqNo: **3295443** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.4	70	130			

Sample ID: **LCS-70842**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **70842**	RunNo: **91887**
Prep Date: **10/14/2022**	Analysis Date: **10/18/2022**	SeqNo: **3295444** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.1	80	120			
Toluene	1.0	0.050	1.000	0	99.7	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2210716 | RcptNo: 1

Received By: **Tracy Casarrubias** 10/14/2022 7:15:00 AM

Completed By: **Tracy Casarrubias** 10/14/2022 9:22:45 AM

Reviewed By: KPA 10.14.22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: KPA 10/14/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	12.9	Good	Yes			
2	3.1	Good	Yes			
3	2.3	Good	Yes			
4	1.4	Good	Yes			

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

EOG 5 DAY TAT
☑ Standard ☒ **Rush**

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No
# of Coolers: 4
Cooler Temp(including CF): See Checklist

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2210716	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10-12-22	0930	Soil	EW-1	1x4oz Jar	ICE	001	X	X	X
	0954		EW-6			002			
	0958		EW-7			003			
	1422		EW-2			004			
	1428		EW-5			005			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10-13-22	0804	J. Martinez			10/13/22	804
10/13/22	1900			Courier	10/14/22	7:15

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 27, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2210783

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/15/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2210783**
Date Reported: **10/27/2022**

CLIENT: EOG
Client Sample ID: EW-4
Project: Roy SWD 3
Collection Date: 10/13/2022 9:52:00 AM
Lab ID: 2210783-001 **Matrix:** SOIL **Received Date:** 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	61		mg/Kg	20	10/21/2022 1:11:11 PM	70978
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/24/2022 10:15:09 AM	70950
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/24/2022 10:15:09 AM	70950
Surr: DNOP	95.4	21-129		%Rec	1	10/24/2022 10:15:09 AM	70950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/18/2022 3:18:00 PM	70872
Surr: BFB	94.7	37.7-212		%Rec	1	10/18/2022 3:18:00 PM	70872
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	10/18/2022 3:18:00 PM	70872
Toluene	ND	0.047		mg/Kg	1	10/18/2022 3:18:00 PM	70872
Ethylbenzene	ND	0.047		mg/Kg	1	10/18/2022 3:18:00 PM	70872
Xylenes, Total	ND	0.094		mg/Kg	1	10/18/2022 3:18:00 PM	70872
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	10/18/2022 3:18:00 PM	70872

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210783**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** EW-3E
Project: Roy SWD 3 **Collection Date:** 10/13/2022 4:00:00 PM
Lab ID: 2210783-002 **Matrix:** SOIL **Received Date:** 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	850	60		mg/Kg	20	10/21/2022 1:48:24 PM	70978
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/24/2022 10:28:11 AM	70950
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/24/2022 10:28:11 AM	70950
Surr: DNOP	113	21-129		%Rec	1	10/24/2022 10:28:11 AM	70950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/18/2022 3:38:00 PM	70872
Surr: BFB	94.1	37.7-212		%Rec	1	10/18/2022 3:38:00 PM	70872
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	10/18/2022 3:38:00 PM	70872
Toluene	ND	0.049		mg/Kg	1	10/18/2022 3:38:00 PM	70872
Ethylbenzene	ND	0.049		mg/Kg	1	10/18/2022 3:38:00 PM	70872
Xylenes, Total	ND	0.098		mg/Kg	1	10/18/2022 3:38:00 PM	70872
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	10/18/2022 3:38:00 PM	70872

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210783**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-3W
Project: Roy SWD 3
Collection Date: 10/13/2022 4:04:00 PM
Lab ID: 2210783-003 **Matrix:** SOIL **Received Date:** 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1000	60		mg/Kg	20	10/21/2022 2:00:49 PM	70978
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/24/2022 10:41:11 AM	70950
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/24/2022 10:41:11 AM	70950
Surr: DNOP	102	21-129		%Rec	1	10/24/2022 10:41:11 AM	70950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/18/2022 3:57:00 PM	70872
Surr: BFB	96.7	37.7-212		%Rec	1	10/18/2022 3:57:00 PM	70872
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/18/2022 3:57:00 PM	70872
Toluene	ND	0.048		mg/Kg	1	10/18/2022 3:57:00 PM	70872
Ethylbenzene	ND	0.048		mg/Kg	1	10/18/2022 3:57:00 PM	70872
Xylenes, Total	ND	0.097		mg/Kg	1	10/18/2022 3:57:00 PM	70872
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	10/18/2022 3:57:00 PM	70872

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210783**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-4A
Project: Roy SWD 3
Collection Date: 10/13/2022 11:40:00 AM
Lab ID: 2210783-004 **Matrix:** SOIL **Received Date:** 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	340	60		mg/Kg	20	10/21/2022 2:13:13 PM	70978
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/24/2022 10:54:11 AM	70950
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/24/2022 10:54:11 AM	70950
Surr: DNOP	100	21-129		%Rec	1	10/24/2022 10:54:11 AM	70950
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/18/2022 4:36:00 PM	70872
Surr: BFB	90.4	37.7-212		%Rec	1	10/18/2022 4:36:00 PM	70872
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/18/2022 4:36:00 PM	70872
Toluene	ND	0.048		mg/Kg	1	10/18/2022 4:36:00 PM	70872
Ethylbenzene	ND	0.048		mg/Kg	1	10/18/2022 4:36:00 PM	70872
Xylenes, Total	ND	0.096		mg/Kg	1	10/18/2022 4:36:00 PM	70872
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	10/18/2022 4:36:00 PM	70872

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210783**

27-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-70978**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **70978**	RunNo: **92015**
Prep Date: **10/21/2022**	Analysis Date: **10/21/2022**	SeqNo: **3301674** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-70978**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **70978**	RunNo: **92015**
Prep Date: **10/21/2022**	Analysis Date: **10/21/2022**	SeqNo: **3301675** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210783**

27-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-70950**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70950**	RunNo: **92021**
Prep Date: **10/20/2022**	Analysis Date: **10/24/2022**	SeqNo: **3301917** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.0	21	129			

Sample ID: **LCS-70950**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **70950**	RunNo: **92021**
Prep Date: **10/20/2022**	Analysis Date: **10/24/2022**	SeqNo: **3301919** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	15	50.00	0	114	64.4	127			
Surr: DNOP	5.3		5.000		105	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210783**

27-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-70872**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **70872**	RunNo: **91908**
Prep Date: **10/17/2022**	Analysis Date: **10/18/2022**	SeqNo: **3296480** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	80.3	72.3	137			
Surr: BFB	2000		1000		203	37.7	212			

Sample ID: **mb-70872**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **70872**	RunNo: **91908**
Prep Date: **10/17/2022**	Analysis Date: **10/18/2022**	SeqNo: **3296481** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		97.6	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210783**

27-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-70872** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **70872** RunNo: **91908**

Prep Date: **10/17/2022** Analysis Date: **10/18/2022** SeqNo: **3296544** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	1.1	0.050	1.000	0	111	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: **mb-70872** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **70872** RunNo: **91908**

Prep Date: **10/17/2022** Analysis Date: **10/18/2022** SeqNo: **3296545** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2210783 | RcptNo: 1

Received By: Cheyenne Cason 10/15/2022 8:40:00 AM

Completed By: Cheyenne Cason 10/15/2022 9:42:51 AM

Reviewed By: JN 10/17/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 15 (<2 or >12 unless noted)

Adjusted?

Checked by CM 10/16/22 CM 10/17/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Not Present			

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2023 8:44:42 AM

Chain-of-Custody Record

Client: Ranger / EOG

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: EOG 5 DAY TAT
☐ Standard ☐ Rush

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 1.1-0=1.1 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2210783	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	(Cl), F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10-13-22	0952	Soil	EW-4	1x40z Jar	ICE	001	X	X	X				X			
	1600		EW-3E			002										
	1604		EW-3W			003										
	1740	↓	W-4A	↓	↓	004	↓	↓					↓			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10-13-22	0812	J. Martinez				
10/14/22	1900			Cmc cooler	10/15/22	0840

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 27, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2210839

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 26 sample(s) on 10/18/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-1
Project: Roy SWD 3 **Collection Date:** 10/14/2022 1:30:00 PM
Lab ID: 2210839-001 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	92	60		mg/Kg	20	10/24/2022 9:01:52 AM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/20/2022 8:24:22 AM	70929
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/20/2022 8:24:22 AM	70929
Surr: DNOP	91.4	21-129		%Rec	1	10/20/2022 8:24:22 AM	70929
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/19/2022 4:48:56 PM	70900
Surr: BFB	90.2	37.7-212		%Rec	1	10/19/2022 4:48:56 PM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/19/2022 4:48:56 PM	70900
Toluene	ND	0.049		mg/Kg	1	10/19/2022 4:48:56 PM	70900
Ethylbenzene	ND	0.049		mg/Kg	1	10/19/2022 4:48:56 PM	70900
Xylenes, Total	ND	0.098		mg/Kg	1	10/19/2022 4:48:56 PM	70900
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	10/19/2022 4:48:56 PM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-2
Project: Roy SWD 3 **Collection Date:** 10/14/2022 1:32:00 PM
Lab ID: 2210839-002 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2400	150		mg/Kg	50	10/25/2022 8:00:15 AM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/20/2022 8:48:02 AM	70929
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/20/2022 8:48:02 AM	70929
Surr: DNOP	102	21-129		%Rec	1	10/20/2022 8:48:02 AM	70929
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/19/2022 8:44:55 PM	70900
Surr: BFB	87.8	37.7-212		%Rec	1	10/19/2022 8:44:55 PM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/19/2022 8:44:55 PM	70900
Toluene	ND	0.047		mg/Kg	1	10/19/2022 8:44:55 PM	70900
Ethylbenzene	ND	0.047		mg/Kg	1	10/19/2022 8:44:55 PM	70900
Xylenes, Total	ND	0.095		mg/Kg	1	10/19/2022 8:44:55 PM	70900
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	10/19/2022 8:44:55 PM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-3
Project: Roy SWD 3 **Collection Date:** 10/14/2022 1:34:00 PM
Lab ID: 2210839-003 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	3600	150		mg/Kg	50	10/25/2022 8:12:39 AM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	10/20/2022 9:11:47 AM	70929
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/20/2022 9:11:47 AM	70929
Surr: DNOP	99.9	21-129		%Rec	1	10/20/2022 9:11:47 AM	70929
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/19/2022 9:08:34 PM	70900
Surr: BFB	85.0	37.7-212		%Rec	1	10/19/2022 9:08:34 PM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	10/19/2022 9:08:34 PM	70900
Toluene	ND	0.046		mg/Kg	1	10/19/2022 9:08:34 PM	70900
Ethylbenzene	ND	0.046		mg/Kg	1	10/19/2022 9:08:34 PM	70900
Xylenes, Total	ND	0.092		mg/Kg	1	10/19/2022 9:08:34 PM	70900
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	10/19/2022 9:08:34 PM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-4
Project: Roy SWD 3
Collection Date: 10/14/2022 1:36:00 PM
Lab ID: 2210839-004 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1000	60		mg/Kg	20	10/24/2022 11:20:35 AM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/21/2022 8:45:36 AM	70941
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/21/2022 8:45:36 AM	70941
Surr: DNOP	91.1	21-129		%Rec	1	10/21/2022 8:45:36 AM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/19/2022 9:32:09 PM	70900
Surr: BFB	85.4	37.7-212		%Rec	1	10/19/2022 9:32:09 PM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/19/2022 9:32:09 PM	70900
Toluene	ND	0.049		mg/Kg	1	10/19/2022 9:32:09 PM	70900
Ethylbenzene	ND	0.049		mg/Kg	1	10/19/2022 9:32:09 PM	70900
Xylenes, Total	ND	0.098		mg/Kg	1	10/19/2022 9:32:09 PM	70900
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	10/19/2022 9:32:09 PM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-5
Project: Roy SWD 3 **Collection Date:** 10/14/2022 1:38:00 PM
Lab ID: 2210839-005 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	3000	150		mg/Kg	50	10/25/2022 8:25:04 AM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/21/2022 9:17:18 AM	70941
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/21/2022 9:17:18 AM	70941
Surr: DNOP	83.6	21-129		%Rec	1	10/21/2022 9:17:18 AM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/19/2022 9:55:41 PM	70900
Surr: BFB	86.5	37.7-212		%Rec	1	10/19/2022 9:55:41 PM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/19/2022 9:55:41 PM	70900
Toluene	ND	0.050		mg/Kg	1	10/19/2022 9:55:41 PM	70900
Ethylbenzene	ND	0.050		mg/Kg	1	10/19/2022 9:55:41 PM	70900
Xylenes, Total	ND	0.10		mg/Kg	1	10/19/2022 9:55:41 PM	70900
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	10/19/2022 9:55:41 PM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-6
Project: Roy SWD 3
Collection Date: 10/14/2022 1:42:00 PM
Lab ID: 2210839-006 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	720	60		mg/Kg	20	10/24/2022 11:45:24 AM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/21/2022 9:27:54 AM	70941
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/21/2022 9:27:54 AM	70941
Surr: DNOP	66.9	21-129		%Rec	1	10/21/2022 9:27:54 AM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/19/2022 10:19:15 PM	70900
Surr: BFB	86.9	37.7-212		%Rec	1	10/19/2022 10:19:15 PM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	10/19/2022 10:19:15 PM	70900
Toluene	ND	0.047		mg/Kg	1	10/19/2022 10:19:15 PM	70900
Ethylbenzene	ND	0.047		mg/Kg	1	10/19/2022 10:19:15 PM	70900
Xylenes, Total	ND	0.094		mg/Kg	1	10/19/2022 10:19:15 PM	70900
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	10/19/2022 10:19:15 PM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-7
Project: Roy SWD 3
Collection Date: 10/14/2022 1:46:00 PM
Lab ID: 2210839-007 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	210	60		mg/Kg	20	10/24/2022 11:57:48 AM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 9:38:39 AM	70941
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/21/2022 9:38:39 AM	70941
Surr: DNOP	86.9	21-129		%Rec	1	10/21/2022 9:38:39 AM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/19/2022 10:42:50 PM	70900
Surr: BFB	84.3	37.7-212		%Rec	1	10/19/2022 10:42:50 PM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/19/2022 10:42:50 PM	70900
Toluene	ND	0.050		mg/Kg	1	10/19/2022 10:42:50 PM	70900
Ethylbenzene	ND	0.050		mg/Kg	1	10/19/2022 10:42:50 PM	70900
Xylenes, Total	ND	0.10		mg/Kg	1	10/19/2022 10:42:50 PM	70900
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	10/19/2022 10:42:50 PM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-8
Project: Roy SWD 3 **Collection Date:** 10/14/2022 1:48:00 PM
Lab ID: 2210839-008 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	150	60		mg/Kg	20	10/24/2022 12:10:12 PM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/21/2022 9:49:24 AM	70941
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/21/2022 9:49:24 AM	70941
Surr: DNOP	83.0	21-129		%Rec	1	10/21/2022 9:49:24 AM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/19/2022 11:53:29 PM	70900
Surr: BFB	86.5	37.7-212		%Rec	1	10/19/2022 11:53:29 PM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/19/2022 11:53:29 PM	70900
Toluene	ND	0.048		mg/Kg	1	10/19/2022 11:53:29 PM	70900
Ethylbenzene	ND	0.048		mg/Kg	1	10/19/2022 11:53:29 PM	70900
Xylenes, Total	ND	0.096		mg/Kg	1	10/19/2022 11:53:29 PM	70900
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	10/19/2022 11:53:29 PM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-9
Project: Roy SWD 3 **Collection Date:** 10/14/2022 1:50:00 PM
Lab ID: 2210839-009 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	140	60		mg/Kg	20	10/24/2022 12:22:36 PM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 10:00:09 AM	70941
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/21/2022 10:00:09 AM	70941
Surr: DNOP	89.6	21-129		%Rec	1	10/21/2022 10:00:09 AM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/20/2022 12:16:58 AM	70900
Surr: BFB	86.0	37.7-212		%Rec	1	10/20/2022 12:16:58 AM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 12:16:58 AM	70900
Toluene	ND	0.048		mg/Kg	1	10/20/2022 12:16:58 AM	70900
Ethylbenzene	ND	0.048		mg/Kg	1	10/20/2022 12:16:58 AM	70900
Xylenes, Total	ND	0.095		mg/Kg	1	10/20/2022 12:16:58 AM	70900
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	10/20/2022 12:16:58 AM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-10
Project: Roy SWD 3 **Collection Date:** 10/14/2022 1:52:00 PM
Lab ID: 2210839-010 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	360	60		mg/Kg	20	10/24/2022 12:35:01 PM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/21/2022 10:10:53 AM	70941
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/21/2022 10:10:53 AM	70941
Surr: DNOP	90.1	21-129		%Rec	1	10/21/2022 10:10:53 AM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/20/2022 12:40:22 AM	70900
Surr: BFB	88.0	37.7-212		%Rec	1	10/20/2022 12:40:22 AM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 12:40:22 AM	70900
Toluene	ND	0.049		mg/Kg	1	10/20/2022 12:40:22 AM	70900
Ethylbenzene	ND	0.049		mg/Kg	1	10/20/2022 12:40:22 AM	70900
Xylenes, Total	ND	0.098		mg/Kg	1	10/20/2022 12:40:22 AM	70900
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	10/20/2022 12:40:22 AM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-11
Project: Roy SWD 3 **Collection Date:** 10/14/2022 1:54:00 PM
Lab ID: 2210839-011 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	180	60		mg/Kg	20	10/24/2022 12:47:25 PM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/21/2022 10:21:36 AM	70941
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/21/2022 10:21:36 AM	70941
Surr: DNOP	68.4	21-129		%Rec	1	10/21/2022 10:21:36 AM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/20/2022 1:03:58 AM	70900
Surr: BFB	88.8	37.7-212		%Rec	1	10/20/2022 1:03:58 AM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 1:03:58 AM	70900
Toluene	ND	0.048		mg/Kg	1	10/20/2022 1:03:58 AM	70900
Ethylbenzene	ND	0.048		mg/Kg	1	10/20/2022 1:03:58 AM	70900
Xylenes, Total	ND	0.096		mg/Kg	1	10/20/2022 1:03:58 AM	70900
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	10/20/2022 1:03:58 AM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-12
Project: Roy SWD 3 **Collection Date:** 10/14/2022 1:58:00 PM
Lab ID: 2210839-012 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1300	60		mg/Kg	20	10/24/2022 12:59:49 PM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 4:43:05 PM	70941
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/21/2022 4:43:05 PM	70941
Surr: DNOP	105	21-129		%Rec	1	10/21/2022 4:43:05 PM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/20/2022 1:27:32 AM	70900
Surr: BFB	87.4	37.7-212		%Rec	1	10/20/2022 1:27:32 AM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/20/2022 1:27:32 AM	70900
Toluene	ND	0.050		mg/Kg	1	10/20/2022 1:27:32 AM	70900
Ethylbenzene	ND	0.050		mg/Kg	1	10/20/2022 1:27:32 AM	70900
Xylenes, Total	ND	0.099		mg/Kg	1	10/20/2022 1:27:32 AM	70900
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	10/20/2022 1:27:32 AM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-13
Project: Roy SWD 3 **Collection Date:** 10/14/2022 2:02:00 PM
Lab ID: 2210839-013 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	61		mg/Kg	20	10/24/2022 1:37:04 PM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 4:54:02 PM	70941
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/21/2022 4:54:02 PM	70941
Surr: DNOP	92.8	21-129		%Rec	1	10/21/2022 4:54:02 PM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/20/2022 1:51:04 AM	70900
Surr: BFB	87.6	37.7-212		%Rec	1	10/20/2022 1:51:04 AM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 1:51:04 AM	70900
Toluene	ND	0.047		mg/Kg	1	10/20/2022 1:51:04 AM	70900
Ethylbenzene	ND	0.047		mg/Kg	1	10/20/2022 1:51:04 AM	70900
Xylenes, Total	ND	0.094		mg/Kg	1	10/20/2022 1:51:04 AM	70900
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	10/20/2022 1:51:04 AM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-14
Project: Roy SWD 3 **Collection Date:** 10/14/2022 2:04:00 PM
Lab ID: 2210839-014 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	90	60		mg/Kg	20	10/24/2022 1:49:28 PM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/21/2022 5:04:58 PM	70941
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/21/2022 5:04:58 PM	70941
Surr: DNOP	96.8	21-129		%Rec	1	10/21/2022 5:04:58 PM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/20/2022 2:14:32 AM	70900
Surr: BFB	91.9	37.7-212		%Rec	1	10/20/2022 2:14:32 AM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 2:14:32 AM	70900
Toluene	ND	0.048		mg/Kg	1	10/20/2022 2:14:32 AM	70900
Ethylbenzene	ND	0.048		mg/Kg	1	10/20/2022 2:14:32 AM	70900
Xylenes, Total	ND	0.097		mg/Kg	1	10/20/2022 2:14:32 AM	70900
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	10/20/2022 2:14:32 AM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-15
Project: Roy SWD 3 **Collection Date:** 10/14/2022 2:10:00 PM
Lab ID: 2210839-015 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	160	60		mg/Kg	20	10/24/2022 2:01:52 PM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 5:15:54 PM	70941
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/21/2022 5:15:54 PM	70941
Surr: DNOP	119	21-129		%Rec	1	10/21/2022 5:15:54 PM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/20/2022 2:37:58 AM	70900
Surr: BFB	91.0	37.7-212		%Rec	1	10/20/2022 2:37:58 AM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 2:37:58 AM	70900
Toluene	ND	0.047		mg/Kg	1	10/20/2022 2:37:58 AM	70900
Ethylbenzene	ND	0.047		mg/Kg	1	10/20/2022 2:37:58 AM	70900
Xylenes, Total	ND	0.094		mg/Kg	1	10/20/2022 2:37:58 AM	70900
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	10/20/2022 2:37:58 AM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-16
Project: Roy SWD 3 **Collection Date:** 10/14/2022 2:12:00 PM
Lab ID: 2210839-016 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	670	60		mg/Kg	20	10/24/2022 2:14:16 PM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 5:26:46 PM	70941
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/21/2022 5:26:46 PM	70941
Surr: DNOP	69.7	21-129		%Rec	1	10/21/2022 5:26:46 PM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/20/2022 3:01:36 AM	70900
Surr: BFB	91.5	37.7-212		%Rec	1	10/20/2022 3:01:36 AM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 3:01:36 AM	70900
Toluene	ND	0.048		mg/Kg	1	10/20/2022 3:01:36 AM	70900
Ethylbenzene	ND	0.048		mg/Kg	1	10/20/2022 3:01:36 AM	70900
Xylenes, Total	ND	0.097		mg/Kg	1	10/20/2022 3:01:36 AM	70900
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	10/20/2022 3:01:36 AM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-17
Project: Roy SWD 3
Collection Date: 10/14/2022 2:18:00 PM
Lab ID: 2210839-017 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	10/24/2022 2:26:41 PM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 5:48:27 PM	70941
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/21/2022 5:48:27 PM	70941
Surr: DNOP	86.3	21-129		%Rec	1	10/21/2022 5:48:27 PM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/20/2022 3:25:08 AM	70900
Surr: BFB	93.2	37.7-212		%Rec	1	10/20/2022 3:25:08 AM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	10/20/2022 3:25:08 AM	70900
Toluene	ND	0.047		mg/Kg	1	10/20/2022 3:25:08 AM	70900
Ethylbenzene	ND	0.047		mg/Kg	1	10/20/2022 3:25:08 AM	70900
Xylenes, Total	ND	0.094		mg/Kg	1	10/20/2022 3:25:08 AM	70900
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	10/20/2022 3:25:08 AM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-18
Project: Roy SWD 3 **Collection Date:** 10/14/2022 2:20:00 PM
Lab ID: 2210839-018 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	210	60		mg/Kg	20	10/24/2022 2:39:06 PM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 5:59:23 PM	70941
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/21/2022 5:59:23 PM	70941
Surr: DNOP	77.1	21-129		%Rec	1	10/21/2022 5:59:23 PM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/20/2022 4:12:08 AM	70900
Surr: BFB	88.9	37.7-212		%Rec	1	10/20/2022 4:12:08 AM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 4:12:08 AM	70900
Toluene	ND	0.048		mg/Kg	1	10/20/2022 4:12:08 AM	70900
Ethylbenzene	ND	0.048		mg/Kg	1	10/20/2022 4:12:08 AM	70900
Xylenes, Total	ND	0.096		mg/Kg	1	10/20/2022 4:12:08 AM	70900
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	10/20/2022 4:12:08 AM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-19
Project: Roy SWD 3 **Collection Date:** 10/14/2022 2:22:00 PM
Lab ID: 2210839-019 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/24/2022 2:51:30 PM	71009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 6:10:21 PM	70941
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/21/2022 6:10:21 PM	70941
Surr: DNOP	83.1	21-129		%Rec	1	10/21/2022 6:10:21 PM	70941
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/20/2022 4:35:44 AM	70900
Surr: BFB	92.7	37.7-212		%Rec	1	10/20/2022 4:35:44 AM	70900
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 4:35:44 AM	70900
Toluene	ND	0.048		mg/Kg	1	10/20/2022 4:35:44 AM	70900
Ethylbenzene	ND	0.048		mg/Kg	1	10/20/2022 4:35:44 AM	70900
Xylenes, Total	ND	0.095		mg/Kg	1	10/20/2022 4:35:44 AM	70900
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	10/20/2022 4:35:44 AM	70900

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-20
Project: Roy SWD 3 **Collection Date:** 10/14/2022 3:00:00 PM
Lab ID: 2210839-020 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	110	59		mg/Kg	20	10/24/2022 9:25:34 AM	71010
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 11:37:00 AM	70958
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/21/2022 11:37:00 AM	70958
Surr: DNOP	105	21-129		%Rec	1	10/21/2022 11:37:00 AM	70958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/20/2022 11:38:04 AM	70903
Surr: BFB	92.2	37.7-212		%Rec	1	10/20/2022 11:38:04 AM	70903
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 11:38:04 AM	70903
Toluene	ND	0.049		mg/Kg	1	10/20/2022 11:38:04 AM	70903
Ethylbenzene	ND	0.049		mg/Kg	1	10/20/2022 11:38:04 AM	70903
Xylenes, Total	ND	0.097		mg/Kg	1	10/20/2022 11:38:04 AM	70903
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	10/20/2022 11:38:04 AM	70903

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-21
Project: Roy SWD 3 **Collection Date:** 10/14/2022 3:02:00 PM
Lab ID: 2210839-021 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	630	60		mg/Kg	20	10/24/2022 9:37:54 AM	71010
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 12:16:52 PM	70958
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/21/2022 12:16:52 PM	70958
Surr: DNOP	96.9	21-129		%Rec	1	10/21/2022 12:16:52 PM	70958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/20/2022 12:48:33 PM	70903
Surr: BFB	93.6	37.7-212		%Rec	1	10/20/2022 12:48:33 PM	70903
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 12:48:33 PM	70903
Toluene	ND	0.047		mg/Kg	1	10/20/2022 12:48:33 PM	70903
Ethylbenzene	ND	0.047		mg/Kg	1	10/20/2022 12:48:33 PM	70903
Xylenes, Total	ND	0.094		mg/Kg	1	10/20/2022 12:48:33 PM	70903
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/20/2022 12:48:33 PM	70903

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-22
Project: Roy SWD 3 **Collection Date:** 10/14/2022 3:04:00 PM
Lab ID: 2210839-022 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1600	60		mg/Kg	20	10/24/2022 10:14:56 AM	71010
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 12:30:14 PM	70958
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/21/2022 12:30:14 PM	70958
Surr: DNOP	97.4	21-129		%Rec	1	10/21/2022 12:30:14 PM	70958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/20/2022 1:59:14 PM	70903
Surr: BFB	88.9	37.7-212		%Rec	1	10/20/2022 1:59:14 PM	70903
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 1:59:14 PM	70903
Toluene	ND	0.048		mg/Kg	1	10/20/2022 1:59:14 PM	70903
Ethylbenzene	ND	0.048		mg/Kg	1	10/20/2022 1:59:14 PM	70903
Xylenes, Total	ND	0.096		mg/Kg	1	10/20/2022 1:59:14 PM	70903
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	10/20/2022 1:59:14 PM	70903

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-23
Project: Roy SWD 3 **Collection Date:** 10/14/2022 3:06:00 PM
Lab ID: 2210839-023 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	87	60		mg/Kg	20	10/24/2022 10:51:57 AM	71010
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 12:43:32 PM	70958
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/21/2022 12:43:32 PM	70958
Surr: DNOP	91.0	21-129		%Rec	1	10/21/2022 12:43:32 PM	70958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/20/2022 2:22:41 PM	70903
Surr: BFB	88.5	37.7-212		%Rec	1	10/20/2022 2:22:41 PM	70903
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 2:22:41 PM	70903
Toluene	ND	0.048		mg/Kg	1	10/20/2022 2:22:41 PM	70903
Ethylbenzene	ND	0.048		mg/Kg	1	10/20/2022 2:22:41 PM	70903
Xylenes, Total	ND	0.095		mg/Kg	1	10/20/2022 2:22:41 PM	70903
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	10/20/2022 2:22:41 PM	70903

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-24
Project: Roy SWD 3
Collection Date: 10/14/2022 3:08:00 PM
Lab ID: 2210839-024 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	600	61		mg/Kg	20	10/24/2022 11:29:00 AM	71010
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 12:56:49 PM	70958
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/21/2022 12:56:49 PM	70958
Surr: DNOP	80.6	21-129		%Rec	1	10/21/2022 12:56:49 PM	70958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/20/2022 2:46:07 PM	70903
Surr: BFB	94.5	37.7-212		%Rec	1	10/20/2022 2:46:07 PM	70903
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 2:46:07 PM	70903
Toluene	ND	0.049		mg/Kg	1	10/20/2022 2:46:07 PM	70903
Ethylbenzene	ND	0.049		mg/Kg	1	10/20/2022 2:46:07 PM	70903
Xylenes, Total	ND	0.098		mg/Kg	1	10/20/2022 2:46:07 PM	70903
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/20/2022 2:46:07 PM	70903

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-25
Project: Roy SWD 3 **Collection Date:** 10/14/2022 3:10:00 PM
Lab ID: 2210839-025 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	520	60		mg/Kg	20	10/24/2022 11:41:20 AM	71010
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 1:10:12 PM	70958
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/21/2022 1:10:12 PM	70958
Surr: DNOP	69.6	21-129		%Rec	1	10/21/2022 1:10:12 PM	70958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/20/2022 3:09:30 PM	70903
Surr: BFB	90.6	37.7-212		%Rec	1	10/20/2022 3:09:30 PM	70903
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/20/2022 3:09:30 PM	70903
Toluene	ND	0.050		mg/Kg	1	10/20/2022 3:09:30 PM	70903
Ethylbenzene	ND	0.050		mg/Kg	1	10/20/2022 3:09:30 PM	70903
Xylenes, Total	ND	0.10		mg/Kg	1	10/20/2022 3:09:30 PM	70903
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	10/20/2022 3:09:30 PM	70903

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210839**
Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-26
Project: Roy SWD 3 **Collection Date:** 10/14/2022 3:11:00 PM
Lab ID: 2210839-026 **Matrix:** SOIL **Received Date:** 10/18/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	10/24/2022 11:53:41 AM	71010
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/21/2022 1:23:48 PM	70958
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/21/2022 1:23:48 PM	70958
Surr: DNOP	72.0	21-129		%Rec	1	10/21/2022 1:23:48 PM	70958
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/20/2022 4:43:32 PM	70903
Surr: BFB	91.0	37.7-212		%Rec	1	10/20/2022 4:43:32 PM	70903
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/20/2022 4:43:32 PM	70903
Toluene	ND	0.048		mg/Kg	1	10/20/2022 4:43:32 PM	70903
Ethylbenzene	ND	0.048		mg/Kg	1	10/20/2022 4:43:32 PM	70903
Xylenes, Total	ND	0.096		mg/Kg	1	10/20/2022 4:43:32 PM	70903
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	10/20/2022 4:43:32 PM	70903

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210839**

27-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-71009**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71009**	RunNo: **92018**							
Prep Date: **10/24/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302943**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71009**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71009**	RunNo: **92018**							
Prep Date: **10/24/2022**	Analysis Date: **10/24/2022**	SeqNo: **3302944**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

Sample ID: **MB-71010**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71010**	RunNo: **92046**							
Prep Date: **10/24/2022**	Analysis Date: **10/24/2022**	SeqNo: **3303044**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71010**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71010**	RunNo: **92046**							
Prep Date: **10/24/2022**	Analysis Date: **10/24/2022**	SeqNo: **3303045**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	101	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210839**

27-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-70929**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70929**	RunNo: **91900**
Prep Date: **10/19/2022**	Analysis Date: **10/20/2022**	SeqNo: **3298010** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		89.9	21	129			

Sample ID: **LCS-70929**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **70929**	RunNo: **91900**
Prep Date: **10/19/2022**	Analysis Date: **10/20/2022**	SeqNo: **3298011** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	15	50.00	0	92.3	64.4	127			
Surr: DNOP	4.6		5.000		92.4	21	129			

Sample ID: **MB-70941**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70941**	RunNo: **91947**
Prep Date: **10/19/2022**	Analysis Date: **10/20/2022**	SeqNo: **3298586** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		95.6	21	129			

Sample ID: **LCS-70941**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **70941**	RunNo: **91947**
Prep Date: **10/19/2022**	Analysis Date: **10/20/2022**	SeqNo: **3298588** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	96.8	64.4	127			
Surr: DNOP	4.9		5.000		98.0	21	129			

Sample ID: **MB-70958**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70958**	RunNo: **91984**
Prep Date: **10/20/2022**	Analysis Date: **10/21/2022**	SeqNo: **3300313** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		114	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2210839**
27-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: **LCS-70958** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **70958** RunNo: **91984**
Prep Date: **10/20/2022** Analysis Date: **10/21/2022** SeqNo: **3300314** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	50.00	0	108	64.4	127			
Surr: DNOP	5.2		5.000		104	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210839**

27-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb-70900**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **70900**	RunNo: **91905**
Prep Date: **10/18/2022**	Analysis Date: **10/19/2022**	SeqNo: **3297276** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		86.7	37.7	212			

Sample ID: **lcs-70900**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **70900**	RunNo: **91905**
Prep Date: **10/18/2022**	Analysis Date: **10/19/2022**	SeqNo: **3297277** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.6	72.3	137			
Surr: BFB	1800		1000		182	37.7	212			

Sample ID: **mb-70903**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **70903**	RunNo: **91963**
Prep Date: **10/18/2022**	Analysis Date: **10/20/2022**	SeqNo: **3298937** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		89.9	37.7	212			

Sample ID: **lcs-70903**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **70903**	RunNo: **91963**
Prep Date: **10/18/2022**	Analysis Date: **10/20/2022**	SeqNo: **3298938** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.9	72.3	137			
Surr: BFB	1400		1000		138	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2210839**
27-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: **mb-70900**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **70900**	RunNo: **91905**
Prep Date: **10/18/2022**	Analysis Date: **10/19/2022**	SeqNo: **3297322** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.4	70	130			

Sample ID: **LCS-70900**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **70900**	RunNo: **91905**
Prep Date: **10/18/2022**	Analysis Date: **10/19/2022**	SeqNo: **3297323** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	80	120			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.4	70	130			

Sample ID: **mb-70903**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **70903**	RunNo: **91963**
Prep Date: **10/18/2022**	Analysis Date: **10/20/2022**	SeqNo: **3298984** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	70	130			

Sample ID: **LCS-70903**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **70903**	RunNo: **91963**
Prep Date: **10/18/2022**	Analysis Date: **10/20/2022**	SeqNo: **3298985** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	105	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG Work Order Number: 2210839 RcptNo: 1

Received By: Juan Rojas 10/18/2022 7:30:00 AM

Completed By: Sean Livingston 10/18/2022 8:27:55 AM

Reviewed By: JR 10/18/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: KPU 10.18.22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good				

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

EOG 5 DAY TAT

Client: EOG-Artesia / Ranger Env.

☑ Standard ☒ Rush

Project Name: Roy SWD #3

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Project #: 5375

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

Project Manager: W. Kierdorf

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other

■ EDD (Type) Excel

Sampler: J. Martinez

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): 0.9+0.1=1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208399	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10-14-22	1330	soil	B-1	1x4oz Jar	ICE	001	X	X	X
	1332		B-2			002			
	1334		B-3			003			
	1336		B-4			004			
	1338		B-5			005			
	1342		B-6			006			
	1346		B-7			007			
	1348		B-8			008			
	1350		B-9			009			
	1352		B-10			010			
	1354		B-11			011			
	1358		B-12			012			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10-17-22	1026	J. Martinez			10/17/22	1026
10/17/22	1900			Courier	10/18/22	7:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Released to Imaging: 9/4/2025 1:20:26 PM

EOG 5 DAY TAT

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

Email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

☑ Standard ☒ **Rush** X

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 0.9+0.1=1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10-14-22	1402	Soil	B-13	1x4oz jar	ICE	013	X	X	X
	1404		B-14			014			
	1410		B-15			015			
	1412		B-16			016			
	1418		B-17			017			
	1420		B-18			018			
	1422		B-19			019			
	1500		B-20			020			
	1502		B-21			021			
	1504		B-22			022			
	1506		B-23			023			
	1508		B-24			024			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
~~10-14-22~~ 10-17-22	1026	J. Martinez			10/17/22	1026
10/20/22	1900			Courier	10/18/22	7:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

@ EOG 5 DAY TAT

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

☑ Standard ☒ **Rush**

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.9+0.1=1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

3 of 3

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10-14-22	1510	soil	B-25	1x4oz Jar	ICE	025	X	X	X
"	1511	"	B-26	"	"	026	"	"	"

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10-17-22	1026	J. Martinez			10/17/22	0826
10/17/22	1900				10/18/22	7:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 04, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: ROY SWD 3 OrderNo.: 2210D60

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 13 sample(s) on 10/27/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2210D60**
Date Reported: **11/4/2022**

CLIENT: EOG
Client Sample ID: W-11
Project: ROY SWD 3
Collection Date: 10/25/2022 11:06:00 AM
Lab ID: 2210D60-001 **Matrix:** SOIL **Received Date:** 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	260	60		mg/Kg	20	11/2/2022 1:01:26 PM	71230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/1/2022 12:53:17 AM	71176
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/1/2022 12:53:17 AM	71176
Surr: DNOP	89.4	21-129		%Rec	1	11/1/2022 12:53:17 AM	71176
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/31/2022 3:24:00 PM	71160
Surr: BFB	99.2	37.7-212		%Rec	1	10/31/2022 3:24:00 PM	71160
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/31/2022 3:24:00 PM	71160
Toluene	ND	0.047		mg/Kg	1	10/31/2022 3:24:00 PM	71160
Ethylbenzene	ND	0.047		mg/Kg	1	10/31/2022 3:24:00 PM	71160
Xylenes, Total	ND	0.094		mg/Kg	1	10/31/2022 3:24:00 PM	71160
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	10/31/2022 3:24:00 PM	71160

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210D60**
Date Reported: **11/4/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: R-1
Project: ROY SWD 3
Collection Date: 10/25/2022 11:08:00 AM
Lab ID: 2210D60-002 **Matrix:** SOIL **Received Date:** 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	250	60		mg/Kg	20	11/2/2022 1:13:51 PM	71230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/1/2022 1:16:48 AM	71176
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/1/2022 1:16:48 AM	71176
Surr: DNOP	83.3	21-129		%Rec	1	11/1/2022 1:16:48 AM	71176
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/31/2022 4:23:00 PM	71160
Surr: BFB	90.3	37.7-212		%Rec	1	10/31/2022 4:23:00 PM	71160
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/31/2022 4:23:00 PM	71160
Toluene	ND	0.048		mg/Kg	1	10/31/2022 4:23:00 PM	71160
Ethylbenzene	ND	0.048		mg/Kg	1	10/31/2022 4:23:00 PM	71160
Xylenes, Total	ND	0.096		mg/Kg	1	10/31/2022 4:23:00 PM	71160
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	10/31/2022 4:23:00 PM	71160

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210D60**
Date Reported: **11/4/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-8
Project: ROY SWD 3
Collection Date: 10/25/2022 12:02:00 PM
Lab ID: 2210D60-003 **Matrix:** SOIL **Received Date:** 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	300	60		mg/Kg	20	11/2/2022 1:51:03 PM	71230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/1/2022 1:40:28 AM	71176
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/1/2022 1:40:28 AM	71176
Surr: DNOP	96.6	21-129		%Rec	1	11/1/2022 1:40:28 AM	71176
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/31/2022 4:42:00 PM	71160
Surr: BFB	91.4	37.7-212		%Rec	1	10/31/2022 4:42:00 PM	71160
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/31/2022 4:42:00 PM	71160
Toluene	ND	0.047		mg/Kg	1	10/31/2022 4:42:00 PM	71160
Ethylbenzene	ND	0.047		mg/Kg	1	10/31/2022 4:42:00 PM	71160
Xylenes, Total	ND	0.094		mg/Kg	1	10/31/2022 4:42:00 PM	71160
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	10/31/2022 4:42:00 PM	71160

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210D60**
Date Reported: **11/4/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-9
Project: ROY SWD 3
Collection Date: 10/25/2022 12:04:00 PM
Lab ID: 2210D60-004 **Matrix:** SOIL **Received Date:** 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	320	60		mg/Kg	20	11/2/2022 2:03:28 PM	71230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/1/2022 2:04:01 AM	71176
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/1/2022 2:04:01 AM	71176
Surr: DNOP	91.6	21-129		%Rec	1	11/1/2022 2:04:01 AM	71176
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/31/2022 5:02:00 PM	71160
Surr: BFB	96.3	37.7-212		%Rec	1	10/31/2022 5:02:00 PM	71160
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/31/2022 5:02:00 PM	71160
Toluene	ND	0.047		mg/Kg	1	10/31/2022 5:02:00 PM	71160
Ethylbenzene	ND	0.047		mg/Kg	1	10/31/2022 5:02:00 PM	71160
Xylenes, Total	ND	0.095		mg/Kg	1	10/31/2022 5:02:00 PM	71160
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	10/31/2022 5:02:00 PM	71160

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210D60**
Date Reported: **11/4/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-10
Project: ROY SWD 3
Collection Date: 10/25/2022 12:06:00 PM
Lab ID: 2210D60-005 **Matrix:** SOIL **Received Date:** 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	270	60		mg/Kg	20	11/2/2022 2:15:53 PM	71230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/1/2022 2:27:35 AM	71176
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/1/2022 2:27:35 AM	71176
Surr: DNOP	92.0	21-129		%Rec	1	11/1/2022 2:27:35 AM	71176
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/31/2022 5:22:00 PM	71160
Surr: BFB	94.8	37.7-212		%Rec	1	10/31/2022 5:22:00 PM	71160
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	10/31/2022 5:22:00 PM	71160
Toluene	ND	0.050		mg/Kg	1	10/31/2022 5:22:00 PM	71160
Ethylbenzene	ND	0.050		mg/Kg	1	10/31/2022 5:22:00 PM	71160
Xylenes, Total	ND	0.099		mg/Kg	1	10/31/2022 5:22:00 PM	71160
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	10/31/2022 5:22:00 PM	71160

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210D60**
Date Reported: **11/4/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: NB-1
Project: ROY SWD 3
Collection Date: 10/25/2022 1:26:00 PM
Lab ID: 2210D60-006 **Matrix:** SOIL **Received Date:** 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1500	60		mg/Kg	20	11/2/2022 2:28:17 PM	71230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/1/2022 2:51:10 AM	71176
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/1/2022 2:51:10 AM	71176
Surr: DNOP	89.0	21-129		%Rec	1	11/1/2022 2:51:10 AM	71176
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/31/2022 5:42:00 PM	71160
Surr: BFB	98.7	37.7-212		%Rec	1	10/31/2022 5:42:00 PM	71160
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/31/2022 5:42:00 PM	71160
Toluene	ND	0.048		mg/Kg	1	10/31/2022 5:42:00 PM	71160
Ethylbenzene	ND	0.048		mg/Kg	1	10/31/2022 5:42:00 PM	71160
Xylenes, Total	ND	0.096		mg/Kg	1	10/31/2022 5:42:00 PM	71160
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	10/31/2022 5:42:00 PM	71160

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210D60**
Date Reported: **11/4/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: NB-2
Project: ROY SWD 3
Collection Date: 10/25/2022 1:28:00 PM
Lab ID: 2210D60-007 **Matrix:** SOIL **Received Date:** 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	860	60		mg/Kg	20	11/2/2022 3:05:31 PM	71230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/1/2022 3:14:43 AM	71176
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/1/2022 3:14:43 AM	71176
Surr: DNOP	93.1	21-129		%Rec	1	11/1/2022 3:14:43 AM	71176
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/31/2022 6:01:00 PM	71160
Surr: BFB	89.0	37.7-212		%Rec	1	10/31/2022 6:01:00 PM	71160
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/31/2022 6:01:00 PM	71160
Toluene	ND	0.049		mg/Kg	1	10/31/2022 6:01:00 PM	71160
Ethylbenzene	ND	0.049		mg/Kg	1	10/31/2022 6:01:00 PM	71160
Xylenes, Total	ND	0.097		mg/Kg	1	10/31/2022 6:01:00 PM	71160
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	10/31/2022 6:01:00 PM	71160

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210D60**
Date Reported: **11/4/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** NB-3
Project: ROY SWD 3 **Collection Date:** 10/25/2022 1:30:00 PM
Lab ID: 2210D60-008 **Matrix:** SOIL **Received Date:** 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	410	59		mg/Kg	20	11/2/2022 3:17:56 PM	71230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/1/2022 3:38:15 AM	71176
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/1/2022 3:38:15 AM	71176
Surr: DNOP	92.2	21-129		%Rec	1	11/1/2022 3:38:15 AM	71176
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/31/2022 6:21:00 PM	71160
Surr: BFB	92.5	37.7-212		%Rec	1	10/31/2022 6:21:00 PM	71160
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/31/2022 6:21:00 PM	71160
Toluene	ND	0.048		mg/Kg	1	10/31/2022 6:21:00 PM	71160
Ethylbenzene	ND	0.048		mg/Kg	1	10/31/2022 6:21:00 PM	71160
Xylenes, Total	ND	0.097		mg/Kg	1	10/31/2022 6:21:00 PM	71160
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	10/31/2022 6:21:00 PM	71160

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210D60**
Date Reported: **11/4/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** NB-4
Project: ROY SWD 3 **Collection Date:** 10/25/2022 1:32:00 PM
Lab ID: 2210D60-009 **Matrix:** SOIL **Received Date:** 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	11/2/2022 3:30:21 PM	71230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/2/2022 12:38:45 PM	71182
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/2/2022 12:38:45 PM	71182
Surr: DNOP	94.0	21-129		%Rec	1	11/2/2022 12:38:45 PM	71182
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/31/2022 6:40:00 PM	71160
Surr: BFB	95.4	37.7-212		%Rec	1	10/31/2022 6:40:00 PM	71160
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	10/31/2022 6:40:00 PM	71160
Toluene	ND	0.049		mg/Kg	1	10/31/2022 6:40:00 PM	71160
Ethylbenzene	ND	0.049		mg/Kg	1	10/31/2022 6:40:00 PM	71160
Xylenes, Total	ND	0.098		mg/Kg	1	10/31/2022 6:40:00 PM	71160
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	10/31/2022 6:40:00 PM	71160

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210D60**
Date Reported: **11/4/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: NB-5
Project: ROY SWD 3
Collection Date: 10/25/2022 1:34:00 PM
Lab ID: 2210D60-010 **Matrix:** SOIL **Received Date:** 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	850	60		mg/Kg	20	11/2/2022 3:42:46 PM	71230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/2/2022 1:10:59 PM	71182
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/2/2022 1:10:59 PM	71182
Surr: DNOP	98.2	21-129		%Rec	1	11/2/2022 1:10:59 PM	71182
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/31/2022 7:20:00 PM	71160
Surr: BFB	95.8	37.7-212		%Rec	1	10/31/2022 7:20:00 PM	71160
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/31/2022 7:20:00 PM	71160
Toluene	ND	0.048		mg/Kg	1	10/31/2022 7:20:00 PM	71160
Ethylbenzene	ND	0.048		mg/Kg	1	10/31/2022 7:20:00 PM	71160
Xylenes, Total	ND	0.097		mg/Kg	1	10/31/2022 7:20:00 PM	71160
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	10/31/2022 7:20:00 PM	71160

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210D60**
Date Reported: **11/4/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: NB-6
Project: ROY SWD 3
Collection Date: 10/25/2022 1:36:00 PM
Lab ID: 2210D60-011
Matrix: SOIL
Received Date: 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	64	59		mg/Kg	20	11/2/2022 3:55:10 PM	71230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/2/2022 1:21:43 PM	71182
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/2/2022 1:21:43 PM	71182
Surr: DNOP	104	21-129		%Rec	1	11/2/2022 1:21:43 PM	71182
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/31/2022 7:39:00 PM	71160
Surr: BFB	97.1	37.7-212		%Rec	1	10/31/2022 7:39:00 PM	71160
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/31/2022 7:39:00 PM	71160
Toluene	ND	0.049		mg/Kg	1	10/31/2022 7:39:00 PM	71160
Ethylbenzene	ND	0.049		mg/Kg	1	10/31/2022 7:39:00 PM	71160
Xylenes, Total	ND	0.097		mg/Kg	1	10/31/2022 7:39:00 PM	71160
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	10/31/2022 7:39:00 PM	71160

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210D60**
Date Reported: **11/4/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** NB-7
Project: ROY SWD 3 **Collection Date:** 10/25/2022 1:38:00 PM
Lab ID: 2210D60-012 **Matrix:** SOIL **Received Date:** 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	11/2/2022 4:07:35 PM	71230
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/2/2022 1:32:26 PM	71182
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/2/2022 1:32:26 PM	71182
Surr: DNOP	109	21-129		%Rec	1	11/2/2022 1:32:26 PM	71182
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/31/2022 7:59:00 PM	71160
Surr: BFB	98.7	37.7-212		%Rec	1	10/31/2022 7:59:00 PM	71160
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/31/2022 7:59:00 PM	71160
Toluene	ND	0.048		mg/Kg	1	10/31/2022 7:59:00 PM	71160
Ethylbenzene	ND	0.048		mg/Kg	1	10/31/2022 7:59:00 PM	71160
Xylenes, Total	ND	0.096		mg/Kg	1	10/31/2022 7:59:00 PM	71160
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	10/31/2022 7:59:00 PM	71160

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210D60**
Date Reported: **11/4/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** NB-8
Project: ROY SWD 3 **Collection Date:** 10/25/2022 1:40:00 PM
Lab ID: 2210D60-013 **Matrix:** SOIL **Received Date:** 10/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	220	60		mg/Kg	20	11/2/2022 5:46:51 PM	71253
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/2/2022 1:43:10 PM	71182
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/2/2022 1:43:10 PM	71182
Surr: DNOP	109	21-129		%Rec	1	11/2/2022 1:43:10 PM	71182
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/31/2022 8:19:00 PM	71160
Surr: BFB	94.7	37.7-212		%Rec	1	10/31/2022 8:19:00 PM	71160
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/31/2022 8:19:00 PM	71160
Toluene	ND	0.047		mg/Kg	1	10/31/2022 8:19:00 PM	71160
Ethylbenzene	ND	0.047		mg/Kg	1	10/31/2022 8:19:00 PM	71160
Xylenes, Total	ND	0.095		mg/Kg	1	10/31/2022 8:19:00 PM	71160
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	10/31/2022 8:19:00 PM	71160

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210D60**

04-Nov-22

Client: EOG

Project: ROY SWD 3

Sample ID: **MB-71230**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **71230**	RunNo: **92306**
Prep Date: **11/2/2022**	Analysis Date: **11/2/2022**	SeqNo: **3316142** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71230**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71230**	RunNo: **92306**
Prep Date: **11/2/2022**	Analysis Date: **11/2/2022**	SeqNo: **3316143** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Sample ID: **MB-71253**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **71253**	RunNo: **92306**
Prep Date: **11/2/2022**	Analysis Date: **11/2/2022**	SeqNo: **3316177** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71253**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71253**	RunNo: **92306**
Prep Date: **11/2/2022**	Analysis Date: **11/2/2022**	SeqNo: **3316178** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210D60**

04-Nov-22

Client: EOG

Project: ROY SWD 3

Sample ID: **MB-71176**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71176**	RunNo: **92192**
Prep Date: **10/31/2022**	Analysis Date: **10/31/2022**	SeqNo: **3311494** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.6	21	129			

Sample ID: **LCS-71176**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71176**	RunNo: **92192**
Prep Date: **10/31/2022**	Analysis Date: **10/31/2022**	SeqNo: **3311495** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	15	50.00	0	101	64.4	127			
Surr: DNOP	5.0		5.000		100	21	129			

Sample ID: **LCS-71182**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71182**	RunNo: **92253**
Prep Date: **10/31/2022**	Analysis Date: **11/2/2022**	SeqNo: **3314305** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	15	50.00	0	116	64.4	127			
Surr: DNOP	6.4		5.000		128	21	129			

Sample ID: **MB-71182**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71182**	RunNo: **92253**
Prep Date: **10/31/2022**	Analysis Date: **11/2/2022**	SeqNo: **3314306** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	21	129			

Sample ID: **LCS-71206**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71206**	RunNo: **92253**
Prep Date: **11/1/2022**	Analysis Date: **11/3/2022**	SeqNo: **3315786** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		105	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210D60**

04-Nov-22

Client: EOG

Project: ROY SWD 3

Sample ID: **LCS-71219**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71219**	RunNo: **92253**
Prep Date: **11/1/2022**	Analysis Date: **11/3/2022**	SeqNo: **3315788** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	21	129			

Sample ID: **MB-71206**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71206**	RunNo: **92253**
Prep Date: **11/1/2022**	Analysis Date: **11/3/2022**	SeqNo: **3315789** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		93.6	21	129			

Sample ID: **MB-71219**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71219**	RunNo: **92253**
Prep Date: **11/1/2022**	Analysis Date: **11/3/2022**	SeqNo: **3315791** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.6		10.00		85.8	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210D60**

04-Nov-22

Client: EOG

Project: ROY SWD 3

Sample ID: **lcs-71160**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **71160**	RunNo: **92226**
Prep Date: **10/28/2022**	Analysis Date: **10/31/2022**	SeqNo: **3312314** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	2100		1000		210	37.7	212			

Sample ID: **mb-71160**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **71160**	RunNo: **92226**
Prep Date: **10/28/2022**	Analysis Date: **10/31/2022**	SeqNo: **3312316** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.2	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210D60**

04-Nov-22

Client: EOG

Project: ROY SWD 3

Sample ID: **mb-71160**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71160**	RunNo: **92226**
Prep Date: **10/28/2022**	Analysis Date: **10/31/2022**	SeqNo: **3312418** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		119	70	130			

Sample ID: **lcs-71160**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71160**	RunNo: **92226**
Prep Date: **10/28/2022**	Analysis Date: **10/31/2022**	SeqNo: **3312611** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	122	80	120			S
Toluene	1.2	0.050	1.000	0	121	80	120			S
Ethylbenzene	1.2	0.050	1.000	0	121	80	120			S
Xylenes, Total	3.6	0.10	3.000	0	120	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		120	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2210D60 | RcptNo: 1

Received By: Juan Rojas 10/27/2022 7:25:00 AM

Completed By: Tracy Casarrubias 10/27/2022 10:44:55 AM

Reviewed By: CMC 10/28/22 CMC 10/28/22 10/27/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JN 10/27/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good	Yes			

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other_____
■ EDD (Type) Excel

Turn-Around Time: EOG 5 DAY TAT
☒ Standard ☑ Rush_____

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): 0.6+0.2=0.8

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com 1 of 2

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2210D60	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10-25-22	1106	Soil	W-11	1x4oz Jar	ICE	001	X	X	X
10-25-22	1108		R-1			002			
	1202		W-8			003			
	1204		W-9			004			
	1206		W-10			005			
	1326		NB-1			006			
	1328		NB-2			007			
	1330		NB-3			008			
	1332		NB-4			009			
	1334		NB-5			010			
	1336		NB-6			011			
	1338		NB-7			012			

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10-26-22	800	J. Martinez				
10/26/22	900				10/26/22	900
			Received by:	Via:	Date	Time
					10/29/22	7:25

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time: EOG 5 DAY TAT
☒ Standard ☑ Rush

Project Name: Roy SWD. #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 0.6+0.2=0.8

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

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Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2210D60	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10-25-22	1340	Soil	NB-8	1x4oz Jar	ICE	013	X	X	X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/26/22	820	S. Martinez			10/26/22	820
10/27/22	900				10/27/22	7:25

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 09, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2211154

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 3 sample(s) on 11/3/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued November 08, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2211154**
Date Reported: **11/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-3E/A
Project: Roy SWD 3
Collection Date: 11/1/2022 12:38:00 PM
Lab ID: 2211154-001 **Matrix:** SOIL **Received Date:** 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	400	60		mg/Kg	20	11/7/2022 3:59:35 PM	71324
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/4/2022 12:41:04 PM	71292
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/4/2022 12:41:04 PM	71292
Surr: DNOP	118	21-129		%Rec	1	11/4/2022 12:41:04 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/5/2022 12:14:06 AM	71278
Surr: BFB	86.7	37.7-212		%Rec	1	11/5/2022 12:14:06 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/5/2022 12:14:06 AM	71278
Toluene	ND	0.047		mg/Kg	1	11/5/2022 12:14:06 AM	71278
Ethylbenzene	ND	0.047		mg/Kg	1	11/5/2022 12:14:06 AM	71278
Xylenes, Total	ND	0.094		mg/Kg	1	11/5/2022 12:14:06 AM	71278
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	11/5/2022 12:14:06 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211154**
Date Reported: **11/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-3W/A
Project: Roy SWD 3
Collection Date: 11/1/2022 12:40:00 PM
Lab ID: 2211154-002 **Matrix:** SOIL **Received Date:** 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	11/7/2022 4:11:56 PM	71324
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/4/2022 1:12:34 PM	71292
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/4/2022 1:12:34 PM	71292
Surr: DNOP	81.8	21-129		%Rec	1	11/4/2022 1:12:34 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/5/2022 12:37:30 AM	71278
Surr: BFB	86.5	37.7-212		%Rec	1	11/5/2022 12:37:30 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/5/2022 12:37:30 AM	71278
Toluene	ND	0.047		mg/Kg	1	11/5/2022 12:37:30 AM	71278
Ethylbenzene	ND	0.047		mg/Kg	1	11/5/2022 12:37:30 AM	71278
Xylenes, Total	ND	0.095		mg/Kg	1	11/5/2022 12:37:30 AM	71278
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	11/5/2022 12:37:30 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211154**
Date Reported: **11/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-2/A
Project: Roy SWD 3
Collection Date: 11/1/2022 1:08:00 PM
Lab ID: 2211154-003 **Matrix:** SOIL **Received Date:** 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	170	61		mg/Kg	20	11/7/2022 8:43:31 PM	71352
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/4/2022 1:33:38 PM	71292
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/4/2022 1:33:38 PM	71292
Surr: DNOP	106	21-129		%Rec	1	11/4/2022 1:33:38 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2022 1:00:55 AM	71278
Surr: BFB	85.4	37.7-212		%Rec	1	11/5/2022 1:00:55 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	11/5/2022 1:00:55 AM	71278
Toluene	ND	0.048		mg/Kg	1	11/5/2022 1:00:55 AM	71278
Ethylbenzene	ND	0.048		mg/Kg	1	11/5/2022 1:00:55 AM	71278
Xylenes, Total	ND	0.097		mg/Kg	1	11/5/2022 1:00:55 AM	71278
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	11/5/2022 1:00:55 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211154**

09-Nov-22

Client: EOG

Project: Roy SWD 3

Sample ID: **MB-71324**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **71324**	RunNo: **92399**
Prep Date: **11/7/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320634** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71324**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71324**	RunNo: **92399**
Prep Date: **11/7/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320635** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.7	90	110			

Sample ID: **MB-71352**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **71352**	RunNo: **92399**
Prep Date: **11/7/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320666** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71352**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71352**	RunNo: **92399**
Prep Date: **11/7/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320667** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	99.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211154**

09-Nov-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-71292** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **71292** RunNo: **92341**

Prep Date: **11/3/2022** Analysis Date: **11/4/2022** SeqNo: **3318007** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	87.5	64.4	127			
Surr: DNOP	5.1		5.000		102	21	129			

Sample ID: **MB-71292** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **71292** RunNo: **92341**

Prep Date: **11/3/2022** Analysis Date: **11/4/2022** SeqNo: **3318008** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211154**

09-Nov-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb-71278**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **71278**	RunNo: **92355**
Prep Date: **11/3/2022**	Analysis Date: **11/4/2022**	SeqNo: **3318918** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		87.3	37.7	212			

Sample ID: **lcs-71278**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **71278**	RunNo: **92355**
Prep Date: **11/3/2022**	Analysis Date: **11/4/2022**	SeqNo: **3318919** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.7	72.3	137			
Surr: BFB	1900		1000		187	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211154**

09-Nov-22

Client: EOG

Project: Roy SWD 3

Sample ID: **mb-71278**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71278**	RunNo: **92355**
Prep Date: **11/3/2022**	Analysis Date: **11/4/2022**	SeqNo: **3318970** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.4	70	130			

Sample ID: **LCS-71278**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71278**	RunNo: **92355**
Prep Date: **11/3/2022**	Analysis Date: **11/4/2022**	SeqNo: **3318971** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.1	80	120			
Toluene	1.0	0.050	1.000	0	99.6	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2211154 | RcptNo: 1

Received By: Juan Rojas 11/3/2022 7:30:00 AM

Completed By: Tracy Casarrubias 11/3/2022 8:30:29 AM

Reviewed By: KPG 11-3-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JN 11/3/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good	Yes			

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☑ Standard ☐ Rush 5-day TAT

Project Name:
Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy
On Ice: ~~☐~~ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 1.4+0.1=1.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211154	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/1/22	1238	Soil	EW-2E/A	1 x 4oz Jar	ICE	001	X	X	X
"	1240	"	EW-3W/A	"	"	002	"	"	"
"	1308	"	EW-2/A	"	"	003	"	"	"

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/2/22	1100	W. Kennedy			11/2/22	1100
11/2/22	1900					

Received by: Brownie 11/3/22 7:30

Remarks: Bill to EOG Artesia

Sample ID Correction for -001, EW-3E/A. As per Will Kierdorf. 11/09 CMM

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 28, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2211741

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/12/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2211741**
Date Reported: **11/28/2022**

CLIENT: EOG
Client Sample ID: R-2
Project: Roy SWD 3
Collection Date: 11/7/2022 12:54:00 PM
Lab ID: 2211741-001 **Matrix:** SOIL **Received Date:** 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	630	60		mg/Kg	20	11/18/2022 6:17:53 PM	71593
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/16/2022 11:30:37 PM	71514
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/16/2022 11:30:37 PM	71514
Surr: DNOP	101	21-129		%Rec	1	11/16/2022 11:30:37 PM	71514
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/18/2022 2:06:00 AM	71507
Surr: BFB	96.8	37.7-212		%Rec	1	11/18/2022 2:06:00 AM	71507
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/18/2022 2:06:00 AM	71507
Toluene	ND	0.048		mg/Kg	1	11/18/2022 2:06:00 AM	71507
Ethylbenzene	ND	0.048		mg/Kg	1	11/18/2022 2:06:00 AM	71507
Xylenes, Total	ND	0.097		mg/Kg	1	11/18/2022 2:06:00 AM	71507
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	11/18/2022 2:06:00 AM	71507

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211741**
Date Reported: **11/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: EW-8
Project: Roy SWD 3
Collection Date: 11/7/2022 12:56:00 PM
Lab ID: 2211741-002 **Matrix:** SOIL **Received Date:** 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	11/18/2022 6:30:17 PM	71593
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/16/2022 11:41:01 PM	71514
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/16/2022 11:41:01 PM	71514
Surr: DNOP	92.0	21-129		%Rec	1	11/16/2022 11:41:01 PM	71514
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/18/2022 2:25:00 AM	71507
Surr: BFB	104	37.7-212		%Rec	1	11/18/2022 2:25:00 AM	71507
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/18/2022 2:25:00 AM	71507
Toluene	ND	0.049		mg/Kg	1	11/18/2022 2:25:00 AM	71507
Ethylbenzene	ND	0.049		mg/Kg	1	11/18/2022 2:25:00 AM	71507
Xylenes, Total	ND	0.097		mg/Kg	1	11/18/2022 2:25:00 AM	71507
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	11/18/2022 2:25:00 AM	71507

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211741**

28-Nov-22

Client: EOG

Project: Roy SWD 3

Sample ID:	**MB-71593**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**71593**	RunNo:	**92690**					
Prep Date:	**11/18/2022**	Analysis Date:	**11/18/2022**	SeqNo:	**3336819**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID:	**LCS-71593**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**71593**	RunNo:	**92690**					
Prep Date:	**11/18/2022**	Analysis Date:	**11/18/2022**	SeqNo:	**3336820**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211741**

28-Nov-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-71514** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **71514** RunNo: **92609**

Prep Date: **11/15/2022** Analysis Date: **11/16/2022** SeqNo: **3333124** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	50.00	0	94.1	64.4	127			
Surr: DNOP	5.8		5.000		116	21	129			

Sample ID: **MB-71514** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **71514** RunNo: **92609**

Prep Date: **11/15/2022** Analysis Date: **11/16/2022** SeqNo: **3333125** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211741**

28-Nov-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-71507**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **71507**	RunNo: **92685**
Prep Date: **11/15/2022**	Analysis Date: **11/17/2022**	SeqNo: **3334878** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.5	72.3	137			
Surr: BFB	2200		1000		216	37.7	212			S

Sample ID: **mb-71507**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **71507**	RunNo: **92685**
Prep Date: **11/15/2022**	Analysis Date: **11/17/2022**	SeqNo: **3334879** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.6	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211741**

28-Nov-22

Client: EOG

Project: Roy SWD 3

Sample ID: **lcs-71507**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71507**	RunNo: **92685**
Prep Date: **11/15/2022**	Analysis Date: **11/17/2022**	SeqNo: **3335020** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	110	80	120			
Toluene	1.1	0.050	1.000	0	111	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		120	70	130			

Sample ID: **mb-71507**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71507**	RunNo: **92685**
Prep Date: **11/15/2022**	Analysis Date: **11/17/2022**	SeqNo: **3335021** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		117	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Page 1588 of 2289

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2211741 | RcptNo: 1

Received By: Kasandra Jimena Garcia 11/12/2022 8:00:00 AM

Completed By: Cheyenne Cason 11/12/2022 8:19:57 AM

Reviewed By: KPC 11.12.22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: CM 11/12/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Not Present			

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☑ Standard ☐ Rush 5-day TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (Including CF): 1.6+0.2=1.8

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211741	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/7/22	1254	Soil	R-2	1x4oz Jar	ICE	001	X	X	X
"	1256	"	EW-8	"	"	002	"	"	"

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/11/22	0300	W. Kennedy			11/11/22	800
11/11/22	1900			courier	11.12.22	8:00

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 30, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2211A33

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 6 sample(s) on 11/17/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2211A33**
Date Reported: **11/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-16A
Project: Roy SWD 3 **Collection Date:** 11/15/2022 12:34:00 PM
Lab ID: 2211A33-001 **Matrix:** SOIL **Received Date:** 11/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	480	60		mg/Kg	20	11/23/2022 5:04:31 AM	71673
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/23/2022 10:28:53 PM	71655
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2022 10:28:53 PM	71655
Surr: DNOP	97.4	21-129		%Rec	1	11/23/2022 10:28:53 PM	71655
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2022 5:55:00 PM	71623
Surr: BFB	104	37.7-212		%Rec	1	11/22/2022 5:55:00 PM	71623
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/22/2022 5:55:00 PM	71623
Toluene	ND	0.047		mg/Kg	1	11/22/2022 5:55:00 PM	71623
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2022 5:55:00 PM	71623
Xylenes, Total	ND	0.095		mg/Kg	1	11/22/2022 5:55:00 PM	71623
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	11/22/2022 5:55:00 PM	71623

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211A33**
Date Reported: **11/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** NB-5A
Project: Roy SWD 3 **Collection Date:** 11/15/2022 1:32:00 PM
Lab ID: 2211A33-002 **Matrix:** SOIL **Received Date:** 11/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	290	60		mg/Kg	20	11/23/2022 5:41:32 AM	71673
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/23/2022 11:00:36 PM	71655
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/23/2022 11:00:36 PM	71655
Surr: DNOP	96.7	21-129		%Rec	1	11/23/2022 11:00:36 PM	71655
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2022 6:54:00 PM	71623
Surr: BFB	105	37.7-212		%Rec	1	11/22/2022 6:54:00 PM	71623
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/22/2022 6:54:00 PM	71623
Toluene	ND	0.047		mg/Kg	1	11/22/2022 6:54:00 PM	71623
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2022 6:54:00 PM	71623
Xylenes, Total	ND	0.095		mg/Kg	1	11/22/2022 6:54:00 PM	71623
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	11/22/2022 6:54:00 PM	71623

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211A33**
Date Reported: **11/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-13A
Project: Roy SWD 3 **Collection Date:** 11/15/2022 2:24:00 PM
Lab ID: 2211A33-003 **Matrix:** SOIL **Received Date:** 11/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	670	60		mg/Kg	20	11/23/2022 5:53:53 AM	71673
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/23/2022 11:11:07 PM	71655
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2022 11:11:07 PM	71655
Surr: DNOP	83.4	21-129		%Rec	1	11/23/2022 11:11:07 PM	71655
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/22/2022 7:53:00 PM	71623
Surr: BFB	101	37.7-212		%Rec	1	11/22/2022 7:53:00 PM	71623
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/22/2022 7:53:00 PM	71623
Toluene	ND	0.048		mg/Kg	1	11/22/2022 7:53:00 PM	71623
Ethylbenzene	ND	0.048		mg/Kg	1	11/22/2022 7:53:00 PM	71623
Xylenes, Total	ND	0.097		mg/Kg	1	11/22/2022 7:53:00 PM	71623
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	11/22/2022 7:53:00 PM	71623

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211A33**
Date Reported: **11/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-14A
Project: Roy SWD 3 **Collection Date:** 11/15/2022 2:26:00 PM
Lab ID: 2211A33-004 **Matrix:** SOIL **Received Date:** 11/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	370	60		mg/Kg	20	11/23/2022 6:06:15 AM	71673
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/23/2022 11:21:38 PM	71655
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/23/2022 11:21:38 PM	71655
Surr: DNOP	91.8	21-129		%Rec	1	11/23/2022 11:21:38 PM	71655
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/22/2022 8:13:00 PM	71623
Surr: BFB	101	37.7-212		%Rec	1	11/22/2022 8:13:00 PM	71623
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	11/22/2022 8:13:00 PM	71623
Toluene	ND	0.050		mg/Kg	1	11/22/2022 8:13:00 PM	71623
Ethylbenzene	ND	0.050		mg/Kg	1	11/22/2022 8:13:00 PM	71623
Xylenes, Total	ND	0.10		mg/Kg	1	11/22/2022 8:13:00 PM	71623
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	11/22/2022 8:13:00 PM	71623

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211A33**
Date Reported: **11/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-44
Project: Roy SWD 3 **Collection Date:** 11/15/2022 2:50:00 PM
Lab ID: 2211A33-005 **Matrix:** SOIL **Received Date:** 11/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	510	60		mg/Kg	20	11/23/2022 1:03:24 PM	71692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/23/2022 11:32:09 PM	71655
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/23/2022 11:32:09 PM	71655
Surr: DNOP	90.4	21-129		%Rec	1	11/23/2022 11:32:09 PM	71655
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2022 8:33:00 PM	71623
Surr: BFB	103	37.7-212		%Rec	1	11/22/2022 8:33:00 PM	71623
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/22/2022 8:33:00 PM	71623
Toluene	ND	0.047		mg/Kg	1	11/22/2022 8:33:00 PM	71623
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2022 8:33:00 PM	71623
Xylenes, Total	ND	0.095		mg/Kg	1	11/22/2022 8:33:00 PM	71623
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	11/22/2022 8:33:00 PM	71623

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211A33**
Date Reported: **11/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: NB-2A
Project: Roy SWD 3
Collection Date: 11/15/2022 3:00:00 PM
Lab ID: 2211A33-006
Matrix: SOIL
Received Date: 11/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	530	60		mg/Kg	20	11/23/2022 1:15:49 PM	71692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/23/2022 11:42:37 PM	71655
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2022 11:42:37 PM	71655
Surr: DNOP	92.8	21-129		%Rec	1	11/23/2022 11:42:37 PM	71655
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2022 8:52:00 PM	71623
Surr: BFB	102	37.7-212		%Rec	1	11/22/2022 8:52:00 PM	71623
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/22/2022 8:52:00 PM	71623
Toluene	ND	0.047		mg/Kg	1	11/22/2022 8:52:00 PM	71623
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2022 8:52:00 PM	71623
Xylenes, Total	ND	0.094		mg/Kg	1	11/22/2022 8:52:00 PM	71623
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	11/22/2022 8:52:00 PM	71623

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211A33**
30-Nov-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-71673**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71673**	RunNo: **92788**							
Prep Date: **11/22/2022**	Analysis Date: **11/22/2022**	SeqNo: **3339924**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71673**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71673**	RunNo: **92788**							
Prep Date: **11/22/2022**	Analysis Date: **11/22/2022**	SeqNo: **3339925**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

Sample ID: **MB-71692**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71692**	RunNo: **92827**							
Prep Date: **11/23/2022**	Analysis Date: **11/23/2022**	SeqNo: **3341724**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71692**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71692**	RunNo: **92827**							
Prep Date: **11/23/2022**	Analysis Date: **11/23/2022**	SeqNo: **3341725**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211A33**

30-Nov-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-71655** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **71655** RunNo: **92807**

Prep Date: **11/22/2022** Analysis Date: **11/23/2022** SeqNo: **3342146** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	90.1	64.4	127			
Surr: DNOP	5.1		5.000		103	21	129			

Sample ID: **MB-71655** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **71655** RunNo: **92807**

Prep Date: **11/22/2022** Analysis Date: **11/23/2022** SeqNo: **3342149** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.6	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211A33**
30-Nov-22

Client: EOG
Project: Roy SWD 3

Sample ID: **mb-71623** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **71623** RunNo: **92835**
Prep Date: **11/21/2022** Analysis Date: **11/22/2022** SeqNo: **3341948** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211A33**
30-Nov-22

Client: EOG
Project: Roy SWD 3

Sample ID: **mb-71623**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71623**	RunNo: **92835**
Prep Date: **11/21/2022**	Analysis Date: **11/22/2022**	SeqNo: **3341975** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1601 of 2289

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG Resources Work Order Number: 2211A33 RcptNo: 1

Received By: Tracy Casarrubias 11/17/2022 7:10:00 AM

Completed By: Tracy Casarrubias 11/17/2022 7:48:25 AM

Reviewed By: JM 11/17/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: SR 11/17/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes			

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other_____
■ EDD (Type) Excel

Turn-Around Time: EOG 5 DAY TAT
☐ Standard ☑ Rush_____

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp (Including CF): 0.4-0 = 0.4 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211A33	Analysis Request: BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11-15-22	1234	soil	B-16 A	1x40z Jar	ICE	001	X	X	X
	1332		NB-5A			002			
	1424		B-13A			003			
	1426		B-14A			004			
	1450		B-44			005			
↓	1500	↓	NB-2A	↓	↓	006	↓	↓	↓

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11-16-22	0903	J. Martinez			11/16/22	903
11/16/22	1900				11/17/22	7:10

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 01, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2211B19

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 4 sample(s) on 11/18/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2211B19**
Date Reported: **12/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-12A
Project: Roy SWD 3
Collection Date: 11/16/2022 2:26:00 PM
Lab ID: 2211B19-001 **Matrix:** SOIL **Received Date:** 11/18/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	420	60		mg/Kg	20	11/23/2022 2:55:05 PM	71692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/24/2022 1:16:36 AM	71655
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/24/2022 1:16:36 AM	71655
Surr: DNOP	102	21-129		%Rec	1	11/24/2022 1:16:36 AM	71655
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/22/2022 11:10:00 PM	71623
Surr: BFB	100	37.7-212		%Rec	1	11/22/2022 11:10:00 PM	71623
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/22/2022 11:10:00 PM	71623
Toluene	ND	0.047		mg/Kg	1	11/22/2022 11:10:00 PM	71623
Ethylbenzene	ND	0.047		mg/Kg	1	11/22/2022 11:10:00 PM	71623
Xylenes, Total	ND	0.095		mg/Kg	1	11/22/2022 11:10:00 PM	71623
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/22/2022 11:10:00 PM	71623

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211B19**
Date Reported: **12/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-11A
Project: Roy SWD 3
Collection Date: 11/16/2022 1:00:00 PM
Lab ID: 2211B19-002 **Matrix:** SOIL **Received Date:** 11/18/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	710	60		mg/Kg	20	11/23/2022 3:07:30 PM	71692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/24/2022 1:27:00 AM	71655
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/24/2022 1:27:00 AM	71655
Surr: DNOP	106	21-129		%Rec	1	11/24/2022 1:27:00 AM	71655
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/22/2022 11:29:00 PM	71623
Surr: BFB	100	37.7-212		%Rec	1	11/22/2022 11:29:00 PM	71623
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/22/2022 11:29:00 PM	71623
Toluene	ND	0.049		mg/Kg	1	11/22/2022 11:29:00 PM	71623
Ethylbenzene	ND	0.049		mg/Kg	1	11/22/2022 11:29:00 PM	71623
Xylenes, Total	ND	0.097		mg/Kg	1	11/22/2022 11:29:00 PM	71623
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	11/22/2022 11:29:00 PM	71623

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211B19**
Date Reported: **12/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-31A
Project: Roy SWD 3
Collection Date: 11/16/2022 2:30:00 PM
Lab ID: 2211B19-003 **Matrix:** SOIL **Received Date:** 11/18/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	640	60		mg/Kg	20	11/23/2022 3:19:55 PM	71692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	190	14		mg/Kg	1	11/29/2022 3:50:22 PM	71655
Motor Oil Range Organics (MRO)	360	48		mg/Kg	1	11/29/2022 3:50:22 PM	71655
Surr: DNOP	127	21-129		%Rec	1	11/29/2022 3:50:22 PM	71655
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/22/2022 11:49:00 PM	71623
Surr: BFB	98.6	37.7-212		%Rec	1	11/22/2022 11:49:00 PM	71623
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	11/22/2022 11:49:00 PM	71623
Toluene	ND	0.046		mg/Kg	1	11/22/2022 11:49:00 PM	71623
Ethylbenzene	ND	0.046		mg/Kg	1	11/22/2022 11:49:00 PM	71623
Xylenes, Total	ND	0.093		mg/Kg	1	11/22/2022 11:49:00 PM	71623
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	11/22/2022 11:49:00 PM	71623

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211B19**
Date Reported: **12/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: NB-1A
Project: Roy SWD 3
Collection Date: 11/16/2022 3:20:00 PM
Lab ID: 2211B19-004 **Matrix:** SOIL **Received Date:** 11/18/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	450	60		mg/Kg	20	11/23/2022 3:32:19 PM	71692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/24/2022 1:47:42 AM	71655
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/24/2022 1:47:42 AM	71655
Surr: DNOP	127	21-129		%Rec	1	11/24/2022 1:47:42 AM	71655
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/23/2022 12:09:00 AM	71623
Surr: BFB	100	37.7-212		%Rec	1	11/23/2022 12:09:00 AM	71623
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/23/2022 12:09:00 AM	71623
Toluene	ND	0.048		mg/Kg	1	11/23/2022 12:09:00 AM	71623
Ethylbenzene	ND	0.048		mg/Kg	1	11/23/2022 12:09:00 AM	71623
Xylenes, Total	ND	0.097		mg/Kg	1	11/23/2022 12:09:00 AM	71623
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	11/23/2022 12:09:00 AM	71623

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B19**
01-Dec-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-71692**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71692**	RunNo: **92827**							
Prep Date: **11/23/2022**	Analysis Date: **11/23/2022**	SeqNo: **3341724**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71692**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71692**	RunNo: **92827**							
Prep Date: **11/23/2022**	Analysis Date: **11/23/2022**	SeqNo: **3341725**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B19**
01-Dec-22

Client: EOG
Project: Roy SWD 3

Sample ID: **LCS-71655** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **71655** RunNo: **92807**
Prep Date: **11/22/2022** Analysis Date: **11/23/2022** SeqNo: **3342146** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	90.1	64.4	127			
Surr: DNOP	5.1		5.000		103	21	129			

Sample ID: **MB-71655** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **71655** RunNo: **92807**
Prep Date: **11/22/2022** Analysis Date: **11/23/2022** SeqNo: **3342149** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.6	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B19**
01-Dec-22

Client: EOG
Project: Roy SWD 3

Sample ID: **mb-71623** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **71623** RunNo: **92835**
Prep Date: **11/21/2022** Analysis Date: **11/22/2022** SeqNo: **3341948** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B19**
01-Dec-22

Client: EOG
Project: Roy SWD 3

Sample ID: **mb-71623** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **71623** RunNo: **92835**
Prep Date: **11/21/2022** Analysis Date: **11/22/2022** SeqNo: **3341975** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2211B19 | RcptNo: 1

Received By: **Tracy Casarrubias** 11/18/2022 7:15:00 AM

Completed By: **Tracy Casarrubias** 11/18/2022 8:12:22 AM

Reviewed By: KRA 11-18-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 4 (<2 or >12 unless noted)

Adjusted? NO

Checked by: JN 11/18/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: ____ Date: ____

By Whom: ____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: ____

Client Instructions: ____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other_____
■ EDD (Type) Excel

Turn-Around Time: EOG 5 DAY TAT
☑ Standard ☑ Rush_____

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. M. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.8-0.2=1.6 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211819	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/16/22	1426	Soil	B-12A	1x4oz Jar	ICE	001	Y	Y	X
"	1300	"	B-11A	"	"	002			
"	1430	"	B-31A	"	"	003			
"	1520	"	NB-1A	"	"	004			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11.17.22	855	J. Martinez			11/17/22	855
11/17/22	1900			Courier	11/17/22	7:15

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 30, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2211B64

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 6 sample(s) on 11/19/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2211B64**
Date Reported: **11/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-4A
Project: Roy SWD 3
Collection Date: 11/17/2022 12:16:00 PM
Lab ID: 2211B64-001 **Matrix:** SOIL **Received Date:** 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	300	60		mg/Kg	20	11/23/2022 5:11:36 PM	71692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	11/23/2022 8:10:41 PM	71647
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/23/2022 8:10:41 PM	71647
Surr: DNOP	114	21-129		%Rec	1	11/23/2022 8:10:41 PM	71647
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/23/2022 10:36:54 PM	71638
Surr: BFB	88.7	37.7-212		%Rec	1	11/23/2022 10:36:54 PM	71638
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	11/23/2022 10:36:54 PM	71638
Toluene	ND	0.050		mg/Kg	1	11/23/2022 10:36:54 PM	71638
Ethylbenzene	ND	0.050		mg/Kg	1	11/23/2022 10:36:54 PM	71638
Xylenes, Total	ND	0.099		mg/Kg	1	11/23/2022 10:36:54 PM	71638
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	11/23/2022 10:36:54 PM	71638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211B64**
Date Reported: **11/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-2A
Project: Roy SWD 3 **Collection Date:** 11/17/2022 2:20:00 PM
Lab ID: 2211B64-002 **Matrix:** SOIL **Received Date:** 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	330	61		mg/Kg	20	11/23/2022 5:24:00 PM	71692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/23/2022 8:21:17 PM	71647
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/23/2022 8:21:17 PM	71647
Surr: DNOP	100	21-129		%Rec	1	11/23/2022 8:21:17 PM	71647
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.049		mg/Kg	1	11/23/2022 11:47:11 PM	71638
Surr: BFB	87.8	37.7-212		%Rec	1	11/23/2022 11:47:11 PM	71638
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.00024		mg/Kg	1	11/23/2022 11:47:11 PM	71638
Toluene	ND	0.00049		mg/Kg	1	11/23/2022 11:47:11 PM	71638
Ethylbenzene	ND	0.00049		mg/Kg	1	11/23/2022 11:47:11 PM	71638
Xylenes, Total	ND	0.00098		mg/Kg	1	11/23/2022 11:47:11 PM	71638
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	11/23/2022 11:47:11 PM	71638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211B64**
Date Reported: **11/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-3A
Project: Roy SWD 3 **Collection Date:** 11/17/2022 2:22:00 PM
Lab ID: 2211B64-003 **Matrix:** SOIL **Received Date:** 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	250	60		mg/Kg	20	11/23/2022 5:36:24 PM	71692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/23/2022 8:31:56 PM	71647
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2022 8:31:56 PM	71647
Surr: DNOP	121	21-129		%Rec	1	11/23/2022 8:31:56 PM	71647
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/24/2022 12:57:15 AM	71638
Surr: BFB	88.0	37.7-212		%Rec	1	11/24/2022 12:57:15 AM	71638
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	11/24/2022 12:57:15 AM	71638
Toluene	ND	0.049		mg/Kg	1	11/24/2022 12:57:15 AM	71638
Ethylbenzene	ND	0.049		mg/Kg	1	11/24/2022 12:57:15 AM	71638
Xylenes, Total	ND	0.099		mg/Kg	1	11/24/2022 12:57:15 AM	71638
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	11/24/2022 12:57:15 AM	71638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211B64**
Date Reported: **11/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-5A
Project: Roy SWD 3 **Collection Date:** 11/17/2022 2:24:00 PM
Lab ID: 2211B64-004 **Matrix:** SOIL **Received Date:** 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	720	60		mg/Kg	20	11/23/2022 5:48:49 PM	71692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/23/2022 8:42:37 PM	71647
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/23/2022 8:42:37 PM	71647
Surr: DNOP	121	21-129		%Rec	1	11/23/2022 8:42:37 PM	71647
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/24/2022 1:20:33 AM	71638
Surr: BFB	85.7	37.7-212		%Rec	1	11/24/2022 1:20:33 AM	71638
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	11/24/2022 1:20:33 AM	71638
Toluene	ND	0.049		mg/Kg	1	11/24/2022 1:20:33 AM	71638
Ethylbenzene	ND	0.049		mg/Kg	1	11/24/2022 1:20:33 AM	71638
Xylenes, Total	ND	0.099		mg/Kg	1	11/24/2022 1:20:33 AM	71638
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	11/24/2022 1:20:33 AM	71638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211B64**
Date Reported: **11/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-6A
Project: Roy SWD 3 **Collection Date:** 11/17/2022 2:26:00 PM
Lab ID: 2211B64-005 **Matrix:** SOIL **Received Date:** 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	620	61		mg/Kg	20	11/23/2022 6:01:13 PM	71692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/23/2022 8:53:17 PM	71647
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/23/2022 8:53:17 PM	71647
Surr: DNOP	113	21-129		%Rec	1	11/23/2022 8:53:17 PM	71647
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/24/2022 1:43:50 AM	71638
Surr: BFB	88.4	37.7-212		%Rec	1	11/24/2022 1:43:50 AM	71638
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/24/2022 1:43:50 AM	71638
Toluene	ND	0.048		mg/Kg	1	11/24/2022 1:43:50 AM	71638
Ethylbenzene	ND	0.048		mg/Kg	1	11/24/2022 1:43:50 AM	71638
Xylenes, Total	ND	0.097		mg/Kg	1	11/24/2022 1:43:50 AM	71638
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	11/24/2022 1:43:50 AM	71638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211B64**
Date Reported: **11/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-4AA
Project: Roy SWD 3 **Collection Date:** 11/17/2022 3:34:00 PM
Lab ID: 2211B64-006 **Matrix:** SOIL **Received Date:** 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	350	60		mg/Kg	20	11/23/2022 6:13:38 PM	71692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/23/2022 9:03:58 PM	71647
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/23/2022 9:03:58 PM	71647
Surr: DNOP	107	21-129		%Rec	1	11/23/2022 9:03:58 PM	71647
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/24/2022 2:07:03 AM	71638
Surr: BFB	87.4	37.7-212		%Rec	1	11/24/2022 2:07:03 AM	71638
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	11/24/2022 2:07:03 AM	71638
Toluene	ND	0.049		mg/Kg	1	11/24/2022 2:07:03 AM	71638
Ethylbenzene	ND	0.049		mg/Kg	1	11/24/2022 2:07:03 AM	71638
Xylenes, Total	ND	0.099		mg/Kg	1	11/24/2022 2:07:03 AM	71638
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	11/24/2022 2:07:03 AM	71638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B64**
30-Nov-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-71692**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71692**	RunNo: **92827**							
Prep Date: **11/23/2022**	Analysis Date: **11/23/2022**	SeqNo: **3341724**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71692**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71692**	RunNo: **92827**							
Prep Date: **11/23/2022**	Analysis Date: **11/23/2022**	SeqNo: **3341725**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B64**

30-Nov-22

Client: EOG

Project: Roy SWD 3

Sample ID: **LCS-71647** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **71647** RunNo: **92807**

Prep Date: **11/22/2022** Analysis Date: **11/23/2022** SeqNo: **3340993** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	95.2	64.4	127			
Surr: DNOP	5.7		5.000		114	21	129			

Sample ID: **MB-71647** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **71647** RunNo: **92807**

Prep Date: **11/22/2022** Analysis Date: **11/23/2022** SeqNo: **3340995** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B64**
30-Nov-22

Client: EOG
Project: Roy SWD 3

Sample ID: **mb-71638** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **71638** RunNo: **92814**
Prep Date: **11/21/2022** Analysis Date: **11/23/2022** SeqNo: **3341114** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		89.3	37.7	212			

Sample ID: **lcs-71638** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **71638** RunNo: **92814**
Prep Date: **11/21/2022** Analysis Date: **11/23/2022** SeqNo: **3341115** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.4	72.3	137			
Surr: BFB	1800		1000		183	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211B64**
30-Nov-22

Client: EOG
Project: Roy SWD 3

Sample ID: **mb-71638** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **71638** RunNo: **92814**
Prep Date: **11/21/2022** Analysis Date: **11/23/2022** SeqNo: **3341191** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		91.9	70	130			

Sample ID: **LCS-71638** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **71638** RunNo: **92814**
Prep Date: **11/21/2022** Analysis Date: **11/23/2022** SeqNo: **3341192** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.5	80	120			
Toluene	0.93	0.050	1.000	0	93.1	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2211B64 | RcptNo: 1

Received By: Kasandra Jimena Garcia 11/19/2022 7:45:00 AM KJG

Completed By: Kasandra Jimena Garcia 11/19/2022 8:19:11 AM KJG

Reviewed By: JN 11/19/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: KPA 11-19-22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Yes			
2	3.4	Good	Yes			
3	1.8	Good	Yes			

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other_____

■ EDD (Type) Excel

Turn-Around Time: EOG 5 DAY TAT
☐ Standard ☑ Rush_____

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. M. Martinez

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp (Including CF):

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211364	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/17	1216	soil	B-4A	1x 4oz Jar	ICE	001	✗	✗	✓
	1420		B-2A			002			
	1422		B-3A			003			
	1424		B-5A			004			
	1426		B-6A			005			
	1534		[redacted] B-4AA			006			

KRA 11.19.22

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11-18-22	805	K. Martinez	[signature]		11/18/22	805
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/18/22	1900	[signature]	[signature]	courier	11.19.22	7:45

Remarks: Bill to EOG Artesia
2.0 - 0 = 2.8
3.4 - 0 = 3.4
1.8 - 0 = 1.8

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 05, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2211D13

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 7 sample(s) on 11/23/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2211D13**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-22A
Project: Roy SWD 3
Collection Date: 11/21/2022 10:00:00 AM
Lab ID: 2211D13-001 **Matrix:** SOIL **Received Date:** 11/23/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	3200	150		mg/Kg	50	12/2/2022 11:17:35 AM	71797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/30/2022 2:21:17 PM	71758
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/30/2022 2:21:17 PM	71758
Surr: DNOP	87.7	21-129		%Rec	1	11/30/2022 2:21:17 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/1/2022 12:39:00 AM	71743
Surr: BFB	88.4	37.7-212		%Rec	1	12/1/2022 12:39:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	12/1/2022 12:39:00 AM	71743
Toluene	ND	0.047		mg/Kg	1	12/1/2022 12:39:00 AM	71743
Ethylbenzene	ND	0.047		mg/Kg	1	12/1/2022 12:39:00 AM	71743
Xylenes, Total	ND	0.094		mg/Kg	1	12/1/2022 12:39:00 AM	71743
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	12/1/2022 12:39:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211D13**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-2AA
Project: Roy SWD 3
Collection Date: 11/21/2022 10:10:00 AM
Lab ID: 2211D13-002 **Matrix:** SOIL **Received Date:** 11/23/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	740	60		mg/Kg	20	12/1/2022 8:10:48 PM	71797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/30/2022 2:48:32 PM	71758
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/30/2022 2:48:32 PM	71758
Surr: DNOP	77.3	21-129		%Rec	1	11/30/2022 2:48:32 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/1/2022 12:58:00 AM	71743
Surr: BFB	93.1	37.7-212		%Rec	1	12/1/2022 12:58:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	12/1/2022 12:58:00 AM	71743
Toluene	ND	0.047		mg/Kg	1	12/1/2022 12:58:00 AM	71743
Ethylbenzene	ND	0.047		mg/Kg	1	12/1/2022 12:58:00 AM	71743
Xylenes, Total	ND	0.094		mg/Kg	1	12/1/2022 12:58:00 AM	71743
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	12/1/2022 12:58:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211D13**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-8AA
Project: Roy SWD 3 **Collection Date:** 11/21/2022 12:10:00 PM
Lab ID: 2211D13-003 **Matrix:** SOIL **Received Date:** 11/23/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	500	60		mg/Kg	20	12/1/2022 8:23:09 PM	71797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/30/2022 3:02:05 PM	71758
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/30/2022 3:02:05 PM	71758
Surr: DNOP	72.1	21-129		%Rec	1	11/30/2022 3:02:05 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**CCM**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/1/2022 1:18:00 AM	71743
Surr: BFB	96.6	37.7-212		%Rec	1	12/1/2022 1:18:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst:	**CCM**
Benzene	ND	0.023		mg/Kg	1	12/1/2022 1:18:00 AM	71743
Toluene	ND	0.046		mg/Kg	1	12/1/2022 1:18:00 AM	71743
Ethylbenzene	ND	0.046		mg/Kg	1	12/1/2022 1:18:00 AM	71743
Xylenes, Total	ND	0.092		mg/Kg	1	12/1/2022 1:18:00 AM	71743
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	12/1/2022 1:18:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211D13**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-5AA
Project: Roy SWD 3
Collection Date: 11/21/2022 3:00:00 PM
Lab ID: 2211D13-004 **Matrix:** SOIL **Received Date:** 11/23/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	390	61		mg/Kg	20	12/1/2022 9:00:10 PM	71797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/30/2022 3:15:31 PM	71758
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/30/2022 3:15:31 PM	71758
Surr: DNOP	78.2	21-129		%Rec	1	11/30/2022 3:15:31 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/1/2022 1:57:00 AM	71743
Surr: BFB	90.6	37.7-212		%Rec	1	12/1/2022 1:57:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	12/1/2022 1:57:00 AM	71743
Toluene	ND	0.047		mg/Kg	1	12/1/2022 1:57:00 AM	71743
Ethylbenzene	ND	0.047		mg/Kg	1	12/1/2022 1:57:00 AM	71743
Xylenes, Total	ND	0.095		mg/Kg	1	12/1/2022 1:57:00 AM	71743
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	12/1/2022 1:57:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211D13**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-9AA
Project: Roy SWD 3 **Collection Date:** 11/21/2022 3:04:00 PM
Lab ID: 2211D13-005 **Matrix:** SOIL **Received Date:** 11/23/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	990	60		mg/Kg	20	12/1/2022 9:12:31 PM	71797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/30/2022 3:29:05 PM	71758
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/30/2022 3:29:05 PM	71758
Surr: DNOP	76.4	21-129		%Rec	1	11/30/2022 3:29:05 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/1/2022 2:17:00 AM	71743
Surr: BFB	87.8	37.7-212		%Rec	1	12/1/2022 2:17:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	12/1/2022 2:17:00 AM	71743
Toluene	ND	0.048		mg/Kg	1	12/1/2022 2:17:00 AM	71743
Ethylbenzene	ND	0.048		mg/Kg	1	12/1/2022 2:17:00 AM	71743
Xylenes, Total	ND	0.096		mg/Kg	1	12/1/2022 2:17:00 AM	71743
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	12/1/2022 2:17:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211D13**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-10AA
Project: Roy SWD 3 **Collection Date:** 11/21/2022 3:06:00 PM
Lab ID: 2211D13-006 **Matrix:** SOIL **Received Date:** 11/23/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	420	60		mg/Kg	20	12/1/2022 9:24:52 PM	71797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/30/2022 3:42:51 PM	71758
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/30/2022 3:42:51 PM	71758
Surr: DNOP	83.1	21-129		%Rec	1	11/30/2022 3:42:51 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/1/2022 2:36:00 AM	71743
Surr: BFB	91.5	37.7-212		%Rec	1	12/1/2022 2:36:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	12/1/2022 2:36:00 AM	71743
Toluene	ND	0.047		mg/Kg	1	12/1/2022 2:36:00 AM	71743
Ethylbenzene	ND	0.047		mg/Kg	1	12/1/2022 2:36:00 AM	71743
Xylenes, Total	ND	0.094		mg/Kg	1	12/1/2022 2:36:00 AM	71743
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	12/1/2022 2:36:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211D13**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-3AA
Project: Roy SWD 3 **Collection Date:** 11/21/2022 10:12:00 AM
Lab ID: 2211D13-007 **Matrix:** SOIL **Received Date:** 11/23/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	840	59		mg/Kg	20	12/1/2022 9:37:12 PM	71797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/30/2022 3:56:20 PM	71758
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/30/2022 3:56:20 PM	71758
Surr: DNOP	77.4	21-129		%Rec	1	11/30/2022 3:56:20 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/1/2022 2:56:00 AM	71743
Surr: BFB	95.8	37.7-212		%Rec	1	12/1/2022 2:56:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst:	**CCM**
Benzene	ND	0.025		mg/Kg	1	12/1/2022 2:56:00 AM	71743
Toluene	ND	0.050		mg/Kg	1	12/1/2022 2:56:00 AM	71743
Ethylbenzene	ND	0.050		mg/Kg	1	12/1/2022 2:56:00 AM	71743
Xylenes, Total	ND	0.099		mg/Kg	1	12/1/2022 2:56:00 AM	71743
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	12/1/2022 2:56:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211D13**
05-Dec-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-71797** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **71797** RunNo: **92965**
Prep Date: **12/1/2022** Analysis Date: **12/1/2022** SeqNo: **3347362** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71797** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **71797** RunNo: **92965**
Prep Date: **12/1/2022** Analysis Date: **12/1/2022** SeqNo: **3347363** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211D13**
05-Dec-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-71758**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71758**	RunNo: **92930**
Prep Date: **11/29/2022**	Analysis Date: **11/30/2022**	SeqNo: **3346061** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.4	21	129			

Sample ID: **LCS-71758**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71758**	RunNo: **92930**
Prep Date: **11/29/2022**	Analysis Date: **11/30/2022**	SeqNo: **3346062** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	15	50.00	0	92.7	64.4	127			
Surr: DNOP	4.2		5.000		84.6	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211D13**
05-Dec-22

Client: EOG
Project: Roy SWD 3

Sample ID: **lcs-71743**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **71743**	RunNo: **92937**							
Prep Date: **11/29/2022**	Analysis Date: **11/30/2022**	SeqNo: **3346296**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.4	72.3	137			
Surr: BFB	2100		1000		206	37.7	212			

Sample ID: **mb-71743**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **71743**	RunNo: **92937**							
Prep Date: **11/29/2022**	Analysis Date: **11/30/2022**	SeqNo: **3346297**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		87.8	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211D13**
05-Dec-22

Client: EOG
Project: Roy SWD 3

Sample ID: **lcs-71743** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **71743** RunNo: **92937**
Prep Date: **11/29/2022** Analysis Date: **11/30/2022** SeqNo: **3346350** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.0	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.4	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	70	130			

Sample ID: **mb-71743** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **71743** RunNo: **92937**
Prep Date: **11/29/2022** Analysis Date: **11/30/2022** SeqNo: **3346351** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2211D13 | RcptNo: 1

Received By: Cheyenne Cason 11/23/2022 7:30:00 AM

Completed By: Sean Livingston 11/23/2022 8:34:14 AM

Reviewed By: JH 11-23-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JH 11/23/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good				
2	1.0	Good				

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other_____
■ EDD (Type) Excel

Turn-Around Time: EOG 5 DAY TAT
☐ Standard ☑ Rush_____

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No
# of Coolers: 2 1.3-0=1.3
Cooler Temp(including CF): 1.0-0=1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211D13	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11-21-22	1000	Soil	B-22A	1x4oz Jar	ICE	001	X	X	X
	1010		B-2AA			002			
	1210		B-8AA			003			
	1360		B-5AA			004			
	1502		B-8AA						
	1504		B-9AA			005			
	1506		B-10AA			006			
11-21-22	1012	Soil	B-3AA			007			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11-22-22	1153	J. Martinez			11/22/22	1153
11-22-22	1700				11/23/22	0730

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 05, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Roy SWD 3 OrderNo.: 2211D89

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 7 sample(s) on 11/29/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2211D89**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-29AA
Project: Roy SWD 3
Collection Date: 11/22/2022 12:40:00 PM
Lab ID: 2211D89-001 **Matrix:** SOIL **Received Date:** 11/29/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	360	60		mg/Kg	20	12/1/2022 10:14:15 PM	71797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/30/2022 4:09:51 PM	71758
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/30/2022 4:09:51 PM	71758
Surr: DNOP	78.7	21-129		%Rec	1	11/30/2022 4:09:51 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/1/2022 3:15:00 AM	71743
Surr: BFB	92.7	37.7-212		%Rec	1	12/1/2022 3:15:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	12/1/2022 3:15:00 AM	71743
Toluene	ND	0.047		mg/Kg	1	12/1/2022 3:15:00 AM	71743
Ethylbenzene	ND	0.047		mg/Kg	1	12/1/2022 3:15:00 AM	71743
Xylenes, Total	ND	0.093		mg/Kg	1	12/1/2022 3:15:00 AM	71743
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	12/1/2022 3:15:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211D89**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-25AA
Project: Roy SWD 3 **Collection Date:** 11/22/2022 12:42:00 PM
Lab ID: 2211D89-002 **Matrix:** SOIL **Received Date:** 11/29/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	490	61		mg/Kg	20	12/1/2022 10:26:35 PM	71797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/30/2022 4:23:20 PM	71758
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/30/2022 4:23:20 PM	71758
Surr: DNOP	75.5	21-129		%Rec	1	11/30/2022 4:23:20 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/1/2022 3:35:00 AM	71743
Surr: BFB	96.0	37.7-212		%Rec	1	12/1/2022 3:35:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	12/1/2022 3:35:00 AM	71743
Toluene	ND	0.046		mg/Kg	1	12/1/2022 3:35:00 AM	71743
Ethylbenzene	ND	0.046		mg/Kg	1	12/1/2022 3:35:00 AM	71743
Xylenes, Total	ND	0.092		mg/Kg	1	12/1/2022 3:35:00 AM	71743
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	12/1/2022 3:35:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211D89**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-21AA
Project: Roy SWD 3 **Collection Date:** 11/22/2022 12:44:00 PM
Lab ID: 2211D89-003 **Matrix:** SOIL **Received Date:** 11/29/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	280	60		mg/Kg	20	12/1/2022 10:38:56 PM	71797
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/30/2022 4:37:16 PM	71758
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/30/2022 4:37:16 PM	71758
Surr: DNOP	79.1	21-129		%Rec	1	11/30/2022 4:37:16 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/1/2022 3:54:00 AM	71743
Surr: BFB	90.1	37.7-212		%Rec	1	12/1/2022 3:54:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	12/1/2022 3:54:00 AM	71743
Toluene	ND	0.048		mg/Kg	1	12/1/2022 3:54:00 AM	71743
Ethylbenzene	ND	0.048		mg/Kg	1	12/1/2022 3:54:00 AM	71743
Xylenes, Total	ND	0.095		mg/Kg	1	12/1/2022 3:54:00 AM	71743
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	12/1/2022 3:54:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211D89**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-19AA
Project: Roy SWD 3 **Collection Date:** 11/22/2022 3:16:00 PM
Lab ID: 2211D89-004 **Matrix:** SOIL **Received Date:** 11/29/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	330	61		mg/Kg	20	12/2/2022 2:13:56 PM	71819
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/30/2022 4:50:40 PM	71758
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/30/2022 4:50:40 PM	71758
Surr: DNOP	81.7	21-129		%Rec	1	11/30/2022 4:50:40 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/1/2022 4:14:00 AM	71743
Surr: BFB	91.7	37.7-212		%Rec	1	12/1/2022 4:14:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	12/1/2022 4:14:00 AM	71743
Toluene	ND	0.049		mg/Kg	1	12/1/2022 4:14:00 AM	71743
Ethylbenzene	ND	0.049		mg/Kg	1	12/1/2022 4:14:00 AM	71743
Xylenes, Total	ND	0.098		mg/Kg	1	12/1/2022 4:14:00 AM	71743
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	12/1/2022 4:14:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211D89**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-18AA
Project: Roy SWD 3
Collection Date: 11/22/2022 3:20:00 PM
Lab ID: 2211D89-005 **Matrix:** SOIL **Received Date:** 11/29/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	200	59		mg/Kg	20	12/2/2022 2:50:59 PM	71819
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/30/2022 5:04:14 PM	71758
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/30/2022 5:04:14 PM	71758
Surr: DNOP	75.3	21-129		%Rec	1	11/30/2022 5:04:14 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/1/2022 4:33:00 AM	71743
Surr: BFB	88.6	37.7-212		%Rec	1	12/1/2022 4:33:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	12/1/2022 4:33:00 AM	71743
Toluene	ND	0.049		mg/Kg	1	12/1/2022 4:33:00 AM	71743
Ethylbenzene	ND	0.049		mg/Kg	1	12/1/2022 4:33:00 AM	71743
Xylenes, Total	ND	0.099		mg/Kg	1	12/1/2022 4:33:00 AM	71743
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	12/1/2022 4:33:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211D89**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-17AA
Project: Roy SWD 3
Collection Date: 11/22/2022 3:24:00 PM
Lab ID: 2211D89-006 **Matrix:** SOIL **Received Date:** 11/29/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	250	60		mg/Kg	20	12/2/2022 3:28:01 PM	71819
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/30/2022 5:17:57 PM	71758
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/30/2022 5:17:57 PM	71758
Surr: DNOP	74.7	21-129		%Rec	1	11/30/2022 5:17:57 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/1/2022 4:53:00 AM	71743
Surr: BFB	89.1	37.7-212		%Rec	1	12/1/2022 4:53:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	12/1/2022 4:53:00 AM	71743
Toluene	ND	0.047		mg/Kg	1	12/1/2022 4:53:00 AM	71743
Ethylbenzene	ND	0.047		mg/Kg	1	12/1/2022 4:53:00 AM	71743
Xylenes, Total	ND	0.095		mg/Kg	1	12/1/2022 4:53:00 AM	71743
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	12/1/2022 4:53:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211D89**
Date Reported: **12/5/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-15AA
Project: Roy SWD 3 **Collection Date:** 11/22/2022 3:28:00 PM
Lab ID: 2211D89-007 **Matrix:** SOIL **Received Date:** 11/29/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	230	60		mg/Kg	20	12/2/2022 3:40:21 PM	71819
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/30/2022 5:31:21 PM	71758
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/30/2022 5:31:21 PM	71758
Surr: DNOP	68.4	21-129		%Rec	1	11/30/2022 5:31:21 PM	71758
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/1/2022 5:32:00 AM	71743
Surr: BFB	92.5	37.7-212		%Rec	1	12/1/2022 5:32:00 AM	71743
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	12/1/2022 5:32:00 AM	71743
Toluene	ND	0.046		mg/Kg	1	12/1/2022 5:32:00 AM	71743
Ethylbenzene	ND	0.046		mg/Kg	1	12/1/2022 5:32:00 AM	71743
Xylenes, Total	ND	0.093		mg/Kg	1	12/1/2022 5:32:00 AM	71743
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	12/1/2022 5:32:00 AM	71743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211D89**
05-Dec-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-71797** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **71797** RunNo: **92965**
Prep Date: **12/1/2022** Analysis Date: **12/1/2022** SeqNo: **3347362** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71797** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **71797** RunNo: **92965**
Prep Date: **12/1/2022** Analysis Date: **12/1/2022** SeqNo: **3347363** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Sample ID: **MB-71819** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **71819** RunNo: **92984**
Prep Date: **12/2/2022** Analysis Date: **12/2/2022** SeqNo: **3348996** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71819** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **71819** RunNo: **92984**
Prep Date: **12/2/2022** Analysis Date: **12/2/2022** SeqNo: **3348997** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211D89**
05-Dec-22

Client: EOG
Project: Roy SWD 3

Sample ID: **MB-71758**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71758**	RunNo: **92930**
Prep Date: **11/29/2022**	Analysis Date: **11/30/2022**	SeqNo: **3346061** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.4	21	129			

Sample ID: **LCS-71758**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71758**	RunNo: **92930**
Prep Date: **11/29/2022**	Analysis Date: **11/30/2022**	SeqNo: **3346062** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	15	50.00	0	92.7	64.4	127			
Surr: DNOP	4.2		5.000		84.6	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211D89**
05-Dec-22

Client: EOG
Project: Roy SWD 3

Sample ID: **lcs-71743** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **71743** RunNo: **92937**
Prep Date: **11/29/2022** Analysis Date: **11/30/2022** SeqNo: **3346296** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.4	72.3	137			
Surr: BFB	2100		1000		206	37.7	212			

Sample ID: **mb-71743** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **71743** RunNo: **92937**
Prep Date: **11/29/2022** Analysis Date: **11/30/2022** SeqNo: **3346297** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		87.8	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2211D89**
05-Dec-22

Client: EOG
Project: Roy SWD 3

Sample ID: **lcs-71743**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71743**	RunNo: **92937**
Prep Date: **11/29/2022**	Analysis Date: **11/30/2022**	SeqNo: **3346350** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.0	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.4	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	70	130			

Sample ID: **mb-71743**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71743**	RunNo: **92937**
Prep Date: **11/29/2022**	Analysis Date: **11/30/2022**	SeqNo: **3346351** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2211D89 | RcptNo: 1

Received By: Juan Rojas 11/29/2022 7:25:00 AM

Completed By: Tracy Casarrubias 11/29/2022 7:56:41 AM

Reviewed By: JR 11/29/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JR 11-29-22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other_____

■ EDD (Type) Excel

Turn-Around Time: EOG 5 DAY TAT

☑ Standard ☑ Rush_____

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.3+0.1=1.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211D89	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11-22-22	1240	soil	B-29 AA	1x402 Jar	ICE	001	X	X	X
	1242		B-25 A A			002			
	1244		B-21 A A			003			
	1516		B-19 AA			004			
	1520		B-18 A A			005			
	1524		B-17 A A			006			
	1528		B-15 A A			007			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11-28-22	1011	A. Martinez			11/28/22	1011
11/28/22	1900					

Remarks: Bill to EOG Artesia

11/29/22 7:25

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 09, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy EWD 3 OrderNo.: 2212152

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 12 sample(s) on 12/3/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2212152**
Date Reported: **12/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-6AA
Project: Roy EWD 3
Collection Date: 11/30/2022 9:20:00 AM
Lab ID: 2212152-001 **Matrix:** SOIL **Received Date:** 12/3/2022 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	12/7/2022 3:37:03 PM	71903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/8/2022 2:23:15 AM	71871
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/8/2022 2:23:15 AM	71871
Surr: DNOP	90.7	21-129		%Rec	1	12/8/2022 2:23:15 AM	71871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/6/2022 11:54:00 PM	71856
Surr: BFB	101	37.7-212		%Rec	1	12/6/2022 11:54:00 PM	71856
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	12/6/2022 11:54:00 PM	71856
Toluene	ND	0.048		mg/Kg	1	12/6/2022 11:54:00 PM	71856
Ethylbenzene	ND	0.048		mg/Kg	1	12/6/2022 11:54:00 PM	71856
Xylenes, Total	ND	0.096		mg/Kg	1	12/6/2022 11:54:00 PM	71856
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/6/2022 11:54:00 PM	71856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212152**
Date Reported: **12/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-12AA
Project: Roy EWD 3
Collection Date: 11/30/2022 9:22:00 AM
Lab ID: 2212152-002 **Matrix:** SOIL **Received Date:** 12/3/2022 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	79	60		mg/Kg	20	12/8/2022 12:05:38 AM	71903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/8/2022 2:47:08 AM	71871
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2022 2:47:08 AM	71871
Surr: DNOP	101	21-129		%Rec	1	12/8/2022 2:47:08 AM	71871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/7/2022 12:14:00 AM	71856
Surr: BFB	107	37.7-212		%Rec	1	12/7/2022 12:14:00 AM	71856
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	12/7/2022 12:14:00 AM	71856
Toluene	ND	0.047		mg/Kg	1	12/7/2022 12:14:00 AM	71856
Ethylbenzene	ND	0.047		mg/Kg	1	12/7/2022 12:14:00 AM	71856
Xylenes, Total	ND	0.095		mg/Kg	1	12/7/2022 12:14:00 AM	71856
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/7/2022 12:14:00 AM	71856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212152**
Date Reported: **12/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-21AA
Project: Roy EWD 3
Collection Date: 11/30/2022 10:00:00 AM
Lab ID: 2212152-003 **Matrix:** SOIL **Received Date:** 12/3/2022 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	190	60		mg/Kg	20	12/7/2022 4:26:41 PM	71903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/8/2022 3:11:14 AM	71871
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/8/2022 3:11:14 AM	71871
Surr: DNOP	83.2	21-129		%Rec	1	12/8/2022 3:11:14 AM	71871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/7/2022 12:34:00 AM	71856
Surr: BFB	99.2	37.7-212		%Rec	1	12/7/2022 12:34:00 AM	71856
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	12/7/2022 12:34:00 AM	71856
Toluene	ND	0.046		mg/Kg	1	12/7/2022 12:34:00 AM	71856
Ethylbenzene	ND	0.046		mg/Kg	1	12/7/2022 12:34:00 AM	71856
Xylenes, Total	ND	0.091		mg/Kg	1	12/7/2022 12:34:00 AM	71856
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/7/2022 12:34:00 AM	71856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212152**
Date Reported: **12/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-23AA
Project: Roy EWD 3
Collection Date: 11/30/2022 10:50:00 AM
Lab ID: 2212152-004 **Matrix:** SOIL **Received Date:** 12/3/2022 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	560	60		mg/Kg	20	12/7/2022 4:39:06 PM	71903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/8/2022 3:35:10 AM	71871
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/8/2022 3:35:10 AM	71871
Surr: DNOP	83.8	21-129		%Rec	1	12/8/2022 3:35:10 AM	71871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/7/2022 12:53:00 AM	71856
Surr: BFB	99.6	37.7-212		%Rec	1	12/7/2022 12:53:00 AM	71856
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	12/7/2022 12:53:00 AM	71856
Toluene	ND	0.048		mg/Kg	1	12/7/2022 12:53:00 AM	71856
Ethylbenzene	ND	0.048		mg/Kg	1	12/7/2022 12:53:00 AM	71856
Xylenes, Total	ND	0.096		mg/Kg	1	12/7/2022 12:53:00 AM	71856
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/7/2022 12:53:00 AM	71856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212152**
Date Reported: **12/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-27AA
Project: Roy EWD 3
Collection Date: 11/30/2022 10:45:00 AM
Lab ID: 2212152-005 **Matrix:** SOIL **Received Date:** 12/3/2022 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	930	60		mg/Kg	20	12/7/2022 4:51:30 PM	71903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/8/2022 3:59:15 AM	71871
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2022 3:59:15 AM	71871
Surr: DNOP	84.8	21-129		%Rec	1	12/8/2022 3:59:15 AM	71871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/7/2022 1:13:00 AM	71856
Surr: BFB	103	37.7-212		%Rec	1	12/7/2022 1:13:00 AM	71856
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	12/7/2022 1:13:00 AM	71856
Toluene	ND	0.049		mg/Kg	1	12/7/2022 1:13:00 AM	71856
Ethylbenzene	ND	0.049		mg/Kg	1	12/7/2022 1:13:00 AM	71856
Xylenes, Total	ND	0.098		mg/Kg	1	12/7/2022 1:13:00 AM	71856
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/7/2022 1:13:00 AM	71856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212152**
Date Reported: **12/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-37AA
Project: Roy EWD 3
Collection Date: 11/30/2022 11:50:00 AM
Lab ID: 2212152-006 **Matrix:** SOIL **Received Date:** 12/3/2022 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	680	60		mg/Kg	20	12/7/2022 5:03:54 PM	71903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/8/2022 4:23:12 AM	71871
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/8/2022 4:23:12 AM	71871
Surr: DNOP	82.4	21-129		%Rec	1	12/8/2022 4:23:12 AM	71871
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/7/2022 1:33:00 AM	71856
Surr: BFB	100	37.7-212		%Rec	1	12/7/2022 1:33:00 AM	71856
EPA METHOD 8021B: VOLATILES						Analyst:	**CCM**
Benzene	ND	0.024		mg/Kg	1	12/7/2022 1:33:00 AM	71856
Toluene	ND	0.047		mg/Kg	1	12/7/2022 1:33:00 AM	71856
Ethylbenzene	ND	0.047		mg/Kg	1	12/7/2022 1:33:00 AM	71856
Xylenes, Total	ND	0.095		mg/Kg	1	12/7/2022 1:33:00 AM	71856
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	12/7/2022 1:33:00 AM	71856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212152**
Date Reported: **12/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-40AA
Project: Roy EWD 3
Collection Date: 11/30/2022 12:10:00 PM
Lab ID: 2212152-007 **Matrix:** SOIL **Received Date:** 12/3/2022 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1400	60		mg/Kg	20	12/7/2022 5:16:18 PM	71903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/8/2022 4:47:18 AM	71871
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2022 4:47:18 AM	71871
Surr: DNOP	75.6	21-129		%Rec	1	12/8/2022 4:47:18 AM	71871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/7/2022 2:12:00 AM	71856
Surr: BFB	101	37.7-212		%Rec	1	12/7/2022 2:12:00 AM	71856
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	12/7/2022 2:12:00 AM	71856
Toluene	ND	0.050		mg/Kg	1	12/7/2022 2:12:00 AM	71856
Ethylbenzene	ND	0.050		mg/Kg	1	12/7/2022 2:12:00 AM	71856
Xylenes, Total	ND	0.10		mg/Kg	1	12/7/2022 2:12:00 AM	71856
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/7/2022 2:12:00 AM	71856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212152**
Date Reported: **12/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-39AA
Project: Roy EWD 3
Collection Date: 11/30/2022 1:00:00 PM
Lab ID: 2212152-008 **Matrix:** SOIL **Received Date:** 12/3/2022 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	1400	60		mg/Kg	20	12/7/2022 5:28:42 PM	71903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/8/2022 5:11:18 AM	71871
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/8/2022 5:11:18 AM	71871
Surr: DNOP	82.4	21-129		%Rec	1	12/8/2022 5:11:18 AM	71871
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/7/2022 2:32:00 AM	71856
Surr: BFB	99.3	37.7-212		%Rec	1	12/7/2022 2:32:00 AM	71856
EPA METHOD 8021B: VOLATILES						Analyst:	**CCM**
Benzene	ND	0.024		mg/Kg	1	12/7/2022 2:32:00 AM	71856
Toluene	ND	0.049		mg/Kg	1	12/7/2022 2:32:00 AM	71856
Ethylbenzene	ND	0.049		mg/Kg	1	12/7/2022 2:32:00 AM	71856
Xylenes, Total	ND	0.097		mg/Kg	1	12/7/2022 2:32:00 AM	71856
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/7/2022 2:32:00 AM	71856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212152**
Date Reported: **12/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-42AA
Project: Roy EWD 3
Collection Date: 11/30/2022 1:10:00 PM
Lab ID: 2212152-009 **Matrix:** SOIL **Received Date:** 12/3/2022 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	400	60		mg/Kg	20	12/7/2022 5:41:06 PM	71903
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/8/2022 5:35:30 AM	71871
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/8/2022 5:35:30 AM	71871
Surr: DNOP	82.0	21-129		%Rec	1	12/8/2022 5:35:30 AM	71871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/7/2022 2:52:00 AM	71856
Surr: BFB	101	37.7-212		%Rec	1	12/7/2022 2:52:00 AM	71856
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	12/7/2022 2:52:00 AM	71856
Toluene	ND	0.049		mg/Kg	1	12/7/2022 2:52:00 AM	71856
Ethylbenzene	ND	0.049		mg/Kg	1	12/7/2022 2:52:00 AM	71856
Xylenes, Total	ND	0.099		mg/Kg	1	12/7/2022 2:52:00 AM	71856
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/7/2022 2:52:00 AM	71856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212152**
Date Reported: **12/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-33AA
Project: Roy EWD 3
Collection Date: 11/30/2022 3:30:00 PM
Lab ID: 2212152-010 **Matrix:** SOIL **Received Date:** 12/3/2022 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	890	60		mg/Kg	20	12/7/2022 5:53:31 PM	71904
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/8/2022 5:59:33 AM	71871
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/8/2022 5:59:33 AM	71871
Surr: DNOP	74.0	21-129		%Rec	1	12/8/2022 5:59:33 AM	71871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/7/2022 3:11:00 AM	71856
Surr: BFB	106	37.7-212		%Rec	1	12/7/2022 3:11:00 AM	71856
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	12/7/2022 3:11:00 AM	71856
Toluene	ND	0.049		mg/Kg	1	12/7/2022 3:11:00 AM	71856
Ethylbenzene	ND	0.049		mg/Kg	1	12/7/2022 3:11:00 AM	71856
Xylenes, Total	ND	0.098		mg/Kg	1	12/7/2022 3:11:00 AM	71856
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	12/7/2022 3:11:00 AM	71856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212152**
Date Reported: **12/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-35AA
Project: Roy EWD 3
Collection Date: 11/30/2022 3:34:00 PM
Lab ID: 2212152-011 **Matrix:** SOIL **Received Date:** 12/3/2022 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1000	59		mg/Kg	20	12/7/2022 6:05:55 PM	71904
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/8/2022 6:23:41 AM	71871
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/8/2022 6:23:41 AM	71871
Surr: DNOP	80.8	21-129		%Rec	1	12/8/2022 6:23:41 AM	71871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/7/2022 3:31:00 AM	71856
Surr: BFB	98.8	37.7-212		%Rec	1	12/7/2022 3:31:00 AM	71856
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	12/7/2022 3:31:00 AM	71856
Toluene	ND	0.049		mg/Kg	1	12/7/2022 3:31:00 AM	71856
Ethylbenzene	ND	0.049		mg/Kg	1	12/7/2022 3:31:00 AM	71856
Xylenes, Total	ND	0.097		mg/Kg	1	12/7/2022 3:31:00 AM	71856
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/7/2022 3:31:00 AM	71856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212152**
Date Reported: **12/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-36AA
Project: Roy EWD 3
Collection Date: 11/30/2022 3:38:00 PM
Lab ID: 2212152-012 **Matrix:** SOIL **Received Date:** 12/3/2022 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1300	60		mg/Kg	20	12/7/2022 6:43:08 PM	71904
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/7/2022 7:34:16 PM	71875
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/7/2022 7:34:16 PM	71875
Surr: DNOP	130	21-129	S	%Rec	1	12/7/2022 7:34:16 PM	71875
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/7/2022 3:51:00 AM	71856
Surr: BFB	102	37.7-212		%Rec	1	12/7/2022 3:51:00 AM	71856
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	12/7/2022 3:51:00 AM	71856
Toluene	ND	0.046		mg/Kg	1	12/7/2022 3:51:00 AM	71856
Ethylbenzene	ND	0.046		mg/Kg	1	12/7/2022 3:51:00 AM	71856
Xylenes, Total	ND	0.091		mg/Kg	1	12/7/2022 3:51:00 AM	71856
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	12/7/2022 3:51:00 AM	71856

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212152**

09-Dec-22

Client: EOG

Project: Roy EWD 3

Sample ID: **MB-71903** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **71903** RunNo: **93106**
Prep Date: **12/7/2022** Analysis Date: **12/7/2022** SeqNo: **3353797** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71903** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **71903** RunNo: **93106**
Prep Date: **12/7/2022** Analysis Date: **12/7/2022** SeqNo: **3353798** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Sample ID: **MB-71904** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **71904** RunNo: **93106**
Prep Date: **12/7/2022** Analysis Date: **12/7/2022** SeqNo: **3353799** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71904** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **71904** RunNo: **93106**
Prep Date: **12/7/2022** Analysis Date: **12/7/2022** SeqNo: **3353800** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212152**

09-Dec-22

Client: EOG

Project: Roy EWD 3

Sample ID: **MB-71875**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71875**	RunNo: **93058**
Prep Date: **12/6/2022**	Analysis Date: **12/7/2022**	SeqNo: **3352779** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		133	21	129			S

Sample ID: **LCS-71875**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71875**	RunNo: **93058**
Prep Date: **12/6/2022**	Analysis Date: **12/7/2022**	SeqNo: **3352780** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	15	50.00	0	116	64.4	127			
Surr: DNOP	5.8		5.000		116	21	129			

Sample ID: **LCS-71871**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71871**	RunNo: **93068**
Prep Date: **12/6/2022**	Analysis Date: **12/7/2022**	SeqNo: **3353782** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	87.3	64.4	127			
Surr: DNOP	3.7		5.000		73.5	21	129			

Sample ID: **MB-71871**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71871**	RunNo: **93068**
Prep Date: **12/6/2022**	Analysis Date: **12/7/2022**	SeqNo: **3353785** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.4	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212152**

09-Dec-22

Client: EOG

Project: Roy EWD 3

Sample ID: **lcs-71856**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **71856**	RunNo: **93059**
Prep Date: **12/5/2022**	Analysis Date: **12/6/2022**	SeqNo: **3351489** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.5	72.3	137			
Surr: BFB	2200		1000		217	37.7	212			S

Sample ID: **mb-71856**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **71856**	RunNo: **93059**
Prep Date: **12/5/2022**	Analysis Date: **12/6/2022**	SeqNo: **3351490** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212152**

09-Dec-22

Client: EOG

Project: Roy EWD 3

Sample ID: **lcs-71856**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71856**	RunNo: **93059**
Prep Date: **12/5/2022**	Analysis Date: **12/6/2022**	SeqNo: **3351667** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.3	80	120			
Toluene	1.0	0.050	1.000	0	99.7	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: **mb-71856**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71856**	RunNo: **93059**
Prep Date: **12/5/2022**	Analysis Date: **12/6/2022**	SeqNo: **3351669** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2212152 | RcptNo: 1

Received By: **Tracy Casarrubias** 12/3/2022 8:45:00 AM

Completed By: **Tracy Casarrubias** 12/3/2022 9:37:35 AM

Reviewed By: JM 12/5/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: TME 12/3/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good	Yes			

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other_____

■ EDD (Type) Excel

Turn-Around Time: EOG 5 DAY TAT

☐ Standard ☑ Rush_____

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.7 - 0 = 4.7 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2212152	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11-30-22	0920	soil	B-6AA	1x402 Jar	ICE	001	X	X	X
	0922		B-12AA			002			
	1000		B-21AA			003			
	1050		B-23AA			004			
	1045		B-27AA			005			
	1150		B-37AA			006			
	1210		B-40AA			007			
	1300		B-39AA			008			
	1310		B-42AA			009			
	1530		B-33AA			010			
	1534		B-35AA			011			
	1539		B-36AA			012			

Date	Time	Relinquished by	Received by	Via	Date	Time
12-1-22	2139	J-Martinez				
12/2/22	1900				12/1/22	2139
					12/3/22	8:45

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 3/28/2024 4:35:05 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-829-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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3/28/2024 4:35:05 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-829-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-829-1
Project/Site: Roy SWD #3

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc Job ID: 885-829-1
Project: Roy SWD #3

Job ID: 885-829-1 Eurofins Albuquerque

Job Narrative
885-829-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/9/2024 8:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-1534 and analytical batch 885-1576 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015D_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-1534 and analytical batch 885-1576 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-5AB

Date Collected: 03/07/24 09:40
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-1
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.7		mg/Kg		03/11/24 10:44	03/12/24 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*03/11/24 10:44*	*03/12/24 22:53*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		03/11/24 10:44	03/12/24 22:53	1
Ethylbenzene	ND		0.047		mg/Kg		03/11/24 10:44	03/12/24 22:53	1
Toluene	ND		0.047		mg/Kg		03/11/24 10:44	03/12/24 22:53	1
m,p-Xylene	ND		0.047		mg/Kg		03/11/24 10:44	03/12/24 22:53	1
o-Xylene	ND		0.047		mg/Kg		03/11/24 10:44	03/12/24 22:53	1
Xylenes, Total	ND		0.093		mg/Kg		03/11/24 10:44	03/12/24 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/11/24 10:44*	*03/12/24 22:53*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		03/11/24 14:10	03/11/24 18:54	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/11/24 14:10	03/11/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*69 - 147*	*03/11/24 14:10*	*03/11/24 18:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/12/24 13:11	03/12/24 16:25	20

Client Sample ID: B-6AB

Date Collected: 03/07/24 09:42
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-2
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/11/24 10:44	03/12/24 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*03/11/24 10:44*	*03/12/24 23:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 10:44	03/12/24 23:17	1
Ethylbenzene	ND		0.050		mg/Kg		03/11/24 10:44	03/12/24 23:17	1
Toluene	ND		0.050		mg/Kg		03/11/24 10:44	03/12/24 23:17	1
m,p-Xylene	ND		0.050		mg/Kg		03/11/24 10:44	03/12/24 23:17	1
o-Xylene	ND		0.050		mg/Kg		03/11/24 10:44	03/12/24 23:17	1
Xylenes, Total	ND		0.10		mg/Kg		03/11/24 10:44	03/12/24 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/11/24 10:44*	*03/12/24 23:17*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-6AB

Lab Sample ID: 885-829-2
Matrix: Solid
Date Collected: 03/07/24 09:42
Date Received: 03/09/24 08:30

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		03/11/24 14:10	03/11/24 19:06	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/11/24 14:10	03/11/24 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*69 - 147*	*03/11/24 14:10*	*03/11/24 19:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/12/24 13:11	03/12/24 16:40	20

Client Sample ID: B-22AB

Lab Sample ID: 885-829-3
Matrix: Solid
Date Collected: 03/07/24 09:44
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/11/24 10:44	03/13/24 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*03/11/24 10:44*	*03/13/24 00:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 10:44	03/13/24 00:04	1
Ethylbenzene	ND		0.050		mg/Kg		03/11/24 10:44	03/13/24 00:04	1
Toluene	ND		0.050		mg/Kg		03/11/24 10:44	03/13/24 00:04	1
m,p-Xylene	ND		0.050		mg/Kg		03/11/24 10:44	03/13/24 00:04	1
o-Xylene	ND		0.050		mg/Kg		03/11/24 10:44	03/13/24 00:04	1
Xylenes, Total	ND		0.099		mg/Kg		03/11/24 10:44	03/13/24 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/11/24 10:44*	*03/13/24 00:04*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		03/11/24 14:10	03/11/24 19:30	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/11/24 14:10	03/11/24 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*69 - 147*	*03/11/24 14:10*	*03/11/24 19:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75**		60		mg/Kg		03/12/24 13:11	03/12/24 16:55	20

Client Sample ID: B-2A

Lab Sample ID: 885-829-4
Matrix: Solid
Date Collected: 03/07/24 10:12
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.9		mg/Kg		03/11/24 10:44	03/13/24 00:28	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-2A

Date Collected: 03/07/24 10:12
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-4
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/11/24 10:44*	*03/13/24 00:28*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/11/24 10:44	03/13/24 00:28	1
Ethylbenzene	ND		0.049	mg/Kg		03/11/24 10:44	03/13/24 00:28	1
Toluene	ND		0.049	mg/Kg		03/11/24 10:44	03/13/24 00:28	1
m,p-Xylene	ND		0.049	mg/Kg		03/11/24 10:44	03/13/24 00:28	1
o-Xylene	ND		0.049	mg/Kg		03/11/24 10:44	03/13/24 00:28	1
Xylenes, Total	ND		0.098	mg/Kg		03/11/24 10:44	03/13/24 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/11/24 10:44*	*03/13/24 00:28*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		03/11/24 14:10	03/11/24 19:43	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		03/11/24 14:10	03/11/24 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*69 - 147*	*03/11/24 14:10*	*03/11/24 19:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67**		60	mg/Kg		03/12/24 13:11	03/12/24 17:10	20

Client Sample ID: B-2AAB

Date Collected: 03/07/24 10:16
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-5
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0	mg/Kg		03/11/24 10:44	03/13/24 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 244*	*03/11/24 10:44*	*03/13/24 00:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/11/24 10:44	03/13/24 00:51	1
Ethylbenzene	ND		0.050	mg/Kg		03/11/24 10:44	03/13/24 00:51	1
Toluene	ND		0.050	mg/Kg		03/11/24 10:44	03/13/24 00:51	1
m,p-Xylene	ND		0.050	mg/Kg		03/11/24 10:44	03/13/24 00:51	1
o-Xylene	ND		0.050	mg/Kg		03/11/24 10:44	03/13/24 00:51	1
Xylenes, Total	ND		0.10	mg/Kg		03/11/24 10:44	03/13/24 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*03/11/24 10:44*	*03/13/24 00:51*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		03/11/24 14:10	03/11/24 19:54	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		03/11/24 14:10	03/11/24 19:54	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-2AAB
Date Collected: 03/07/24 10:16
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-5
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*69 - 147*	*03/11/24 14:10*	*03/11/24 19:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		03/12/24 13:11	03/12/24 18:26	20

Client Sample ID: B-3AAB
Date Collected: 03/07/24 10:20
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-6
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.9		mg/Kg		03/11/24 10:44	03/13/24 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 244*	*03/11/24 10:44*	*03/13/24 01:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 10:44	03/13/24 01:15	1
Ethylbenzene	ND		0.049		mg/Kg		03/11/24 10:44	03/13/24 01:15	1
Toluene	ND		0.049		mg/Kg		03/11/24 10:44	03/13/24 01:15	1
m,p-Xylene	ND		0.049		mg/Kg		03/11/24 10:44	03/13/24 01:15	1
o-Xylene	ND		0.049		mg/Kg		03/11/24 10:44	03/13/24 01:15	1
Xylenes, Total	ND		0.099		mg/Kg		03/11/24 10:44	03/13/24 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*03/11/24 10:44*	*03/13/24 01:15*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		03/11/24 14:10	03/11/24 20:07	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		03/11/24 14:10	03/11/24 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*69 - 147*	*03/11/24 14:10*	*03/11/24 20:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**540**		60		mg/Kg		03/12/24 13:11	03/12/24 18:41	20

Client Sample ID: B-9AAB
Date Collected: 03/07/24 10:24
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-7
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.9		mg/Kg		03/11/24 10:44	03/13/24 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/11/24 10:44*	*03/13/24 01:39*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-9AAB
Date Collected: 03/07/24 10:24
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/11/24 10:44	03/13/24 01:39	1
Ethylbenzene	ND		0.049		mg/Kg		03/11/24 10:44	03/13/24 01:39	1
Toluene	ND		0.049		mg/Kg		03/11/24 10:44	03/13/24 01:39	1
m,p-Xylene	ND		0.049		mg/Kg		03/11/24 10:44	03/13/24 01:39	1
o-Xylene	ND		0.049		mg/Kg		03/11/24 10:44	03/13/24 01:39	1
Xylenes, Total	ND		0.097		mg/Kg		03/11/24 10:44	03/13/24 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/11/24 10:44*	*03/13/24 01:39*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		03/11/24 14:10	03/11/24 20:19	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		03/11/24 14:10	03/11/24 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*69 - 147*	*03/11/24 14:10*	*03/11/24 20:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/12/24 13:11	03/12/24 18:56	20

Client Sample ID: B-11AB
Date Collected: 03/07/24 10:28
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-8
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.9		mg/Kg		03/11/24 10:44	03/13/24 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 244*	*03/11/24 10:44*	*03/13/24 02:02*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 10:44	03/13/24 02:02	1
Ethylbenzene	ND		0.049		mg/Kg		03/11/24 10:44	03/13/24 02:02	1
Toluene	ND		0.049		mg/Kg		03/11/24 10:44	03/13/24 02:02	1
m,p-Xylene	ND		0.049		mg/Kg		03/11/24 10:44	03/13/24 02:02	1
o-Xylene	ND		0.049		mg/Kg		03/11/24 10:44	03/13/24 02:02	1
Xylenes, Total	ND		0.098		mg/Kg		03/11/24 10:44	03/13/24 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*03/11/24 10:44*	*03/13/24 02:02*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7		mg/Kg		03/11/24 14:10	03/11/24 20:31	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		03/11/24 14:10	03/11/24 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*69 - 147*	*03/11/24 14:10*	*03/11/24 20:31*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-11AB
Date Collected: 03/07/24 10:28
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-8
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/12/24 13:11	03/12/24 19:11	20

Client Sample ID: B-13AB
Date Collected: 03/07/24 10:30
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-9
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.7		mg/Kg		03/11/24 10:47	03/13/24 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*03/11/24 10:47*	*03/13/24 02:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/11/24 10:47	03/13/24 02:26	1
Ethylbenzene	ND		0.047		mg/Kg		03/11/24 10:47	03/13/24 02:26	1
Toluene	ND		0.047		mg/Kg		03/11/24 10:47	03/13/24 02:26	1
m,p-Xylene	ND		0.047		mg/Kg		03/11/24 10:47	03/13/24 02:26	1
o-Xylene	ND		0.047		mg/Kg		03/11/24 10:47	03/13/24 02:26	1
Xylenes, Total	ND		0.095		mg/Kg		03/11/24 10:47	03/13/24 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/11/24 10:47*	*03/13/24 02:26*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		03/11/24 14:10	03/11/24 20:43	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/11/24 14:10	03/11/24 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*69 - 147*	*03/11/24 14:10*	*03/11/24 20:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68**		60		mg/Kg		03/12/24 15:22	03/12/24 17:30	20

Client Sample ID: B-27AAB
Date Collected: 03/07/24 11:20
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-10
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.8		mg/Kg		03/11/24 10:47	03/13/24 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 244*	*03/11/24 10:47*	*03/13/24 02:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/11/24 10:47	03/13/24 02:49	1
Ethylbenzene	ND		0.048		mg/Kg		03/11/24 10:47	03/13/24 02:49	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-27AAB

Date Collected: 03/07/24 11:20
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-10
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.048		mg/Kg		03/11/24 10:47	03/13/24 02:49	1
m,p-Xylene	ND		0.048		mg/Kg		03/11/24 10:47	03/13/24 02:49	1
o-Xylene	ND		0.048		mg/Kg		03/11/24 10:47	03/13/24 02:49	1
Xylenes, Total	ND		0.097		mg/Kg		03/11/24 10:47	03/13/24 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*03/11/24 10:47*	*03/13/24 02:49*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		03/11/24 14:10	03/11/24 20:55	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/11/24 14:10	03/11/24 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*69 - 147*	*03/11/24 14:10*	*03/11/24 20:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		60		mg/Kg		03/12/24 15:22	03/12/24 17:42	20

Client Sample ID: B-31AB

Date Collected: 03/07/24 11:22
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-11
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.6		mg/Kg		03/11/24 10:47	03/13/24 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/11/24 10:47*	*03/13/24 03:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		03/11/24 10:47	03/13/24 03:13	1
Ethylbenzene	ND		0.046		mg/Kg		03/11/24 10:47	03/13/24 03:13	1
Toluene	ND		0.046		mg/Kg		03/11/24 10:47	03/13/24 03:13	1
m,p-Xylene	ND		0.046		mg/Kg		03/11/24 10:47	03/13/24 03:13	1
o-Xylene	ND		0.046		mg/Kg		03/11/24 10:47	03/13/24 03:13	1
Xylenes, Total	ND		0.093		mg/Kg		03/11/24 10:47	03/13/24 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*39 - 146*	*03/11/24 10:47*	*03/13/24 03:13*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		03/11/24 14:10	03/11/24 21:06	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/11/24 14:10	03/11/24 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*69 - 147*	*03/11/24 14:10*	*03/11/24 21:06*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-31AB
Date Collected: 03/07/24 11:22
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-11
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	400		60		mg/Kg		03/12/24 15:22	03/12/24 17:55	20

Client Sample ID: B-33AAB
Date Collected: 03/07/24 11:24
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-12
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/11/24 10:47	03/13/24 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*03/11/24 10:47*	*03/13/24 03:37*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 10:47	03/13/24 03:37	1
Ethylbenzene	ND		0.050		mg/Kg		03/11/24 10:47	03/13/24 03:37	1
Toluene	ND		0.050		mg/Kg		03/11/24 10:47	03/13/24 03:37	1
m,p-Xylene	ND		0.050		mg/Kg		03/11/24 10:47	03/13/24 03:37	1
o-Xylene	ND		0.050		mg/Kg		03/11/24 10:47	03/13/24 03:37	1
Xylenes, Total	ND		0.10		mg/Kg		03/11/24 10:47	03/13/24 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/11/24 10:47*	*03/13/24 03:37*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	F2 F1	9.9		mg/Kg		03/11/24 14:10	03/11/24 21:18	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		03/11/24 14:10	03/11/24 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*69 - 147*	*03/11/24 14:10*	*03/11/24 21:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470		60		mg/Kg		03/12/24 15:22	03/12/24 18:07	20

Client Sample ID: B-35AAB
Date Collected: 03/07/24 11:26
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-13
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.8		mg/Kg		03/11/24 14:29	03/14/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*03/11/24 14:29*	*03/14/24 18:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/11/24 14:29	03/14/24 18:51	1
Ethylbenzene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 18:51	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-35AAB

Date Collected: 03/07/24 11:26
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-13
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 18:51	1
m,p-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 18:51	1
o-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 18:51	1
Xylenes, Total	ND		0.096		mg/Kg		03/11/24 14:29	03/14/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*39 - 146*	*03/11/24 14:29*	*03/14/24 18:51*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		03/12/24 10:32	03/12/24 15:50	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/12/24 10:32	03/12/24 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*69 - 147*	*03/12/24 10:32*	*03/12/24 15:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/12/24 15:22	03/12/24 18:19	20

Client Sample ID: B-36AAB

Date Collected: 03/07/24 11:40
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-14
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.9		mg/Kg		03/11/24 14:29	03/14/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 244*	*03/11/24 14:29*	*03/14/24 20:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 14:29	03/14/24 20:01	1
Ethylbenzene	ND		0.049		mg/Kg		03/11/24 14:29	03/14/24 20:01	1
Toluene	ND		0.049		mg/Kg		03/11/24 14:29	03/14/24 20:01	1
m,p-Xylene	ND		0.049		mg/Kg		03/11/24 14:29	03/14/24 20:01	1
o-Xylene	ND		0.049		mg/Kg		03/11/24 14:29	03/14/24 20:01	1
Xylenes, Total	ND		0.098		mg/Kg		03/11/24 14:29	03/14/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*39 - 146*	*03/11/24 14:29*	*03/14/24 20:01*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		03/12/24 10:32	03/12/24 16:03	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/12/24 10:32	03/12/24 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*69 - 147*	*03/12/24 10:32*	*03/12/24 16:03*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-36AAB
Date Collected: 03/07/24 11:40
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-14
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280		60		mg/Kg		03/12/24 15:22	03/12/24 18:32	20

Client Sample ID: B-37AAB
Date Collected: 03/07/24 11:42
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-15
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/11/24 14:29	03/14/24 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/11/24 14:29*	*03/14/24 21:12*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 14:29	03/14/24 21:12	1
Ethylbenzene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 21:12	1
Toluene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 21:12	1
m,p-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 21:12	1
o-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 21:12	1
Xylenes, Total	ND		0.099		mg/Kg		03/11/24 14:29	03/14/24 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/11/24 14:29*	*03/14/24 21:12*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/12/24 10:32	03/12/24 16:15	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/12/24 10:32	03/12/24 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*69 - 147*	*03/12/24 10:32*	*03/12/24 16:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72		60		mg/Kg		03/12/24 15:22	03/12/24 18:44	20

Client Sample ID: B-39AAB
Date Collected: 03/07/24 11:44
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-16
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/11/24 14:29	03/14/24 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/11/24 14:29*	*03/14/24 21:35*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 14:29	03/14/24 21:35	1
Ethylbenzene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 21:35	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-39AAB

Date Collected: 03/07/24 11:44
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-16
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 21:35	1
m,p-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 21:35	1
o-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 21:35	1
Xylenes, Total	ND		0.10		mg/Kg		03/11/24 14:29	03/14/24 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/11/24 14:29*	*03/14/24 21:35*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		03/12/24 10:32	03/12/24 16:27	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/12/24 10:32	03/12/24 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*69 - 147*	*03/12/24 10:32*	*03/12/24 16:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/12/24 15:22	03/12/24 18:56	20

Client Sample ID: B-40AAB

Date Collected: 03/07/24 11:50
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-17
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.9		mg/Kg		03/11/24 14:29	03/14/24 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*03/11/24 14:29*	*03/14/24 21:59*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/11/24 14:29	03/14/24 21:59	1
Ethylbenzene	ND		0.049		mg/Kg		03/11/24 14:29	03/14/24 21:59	1
Toluene	ND		0.049		mg/Kg		03/11/24 14:29	03/14/24 21:59	1
m,p-Xylene	ND		0.049		mg/Kg		03/11/24 14:29	03/14/24 21:59	1
o-Xylene	ND		0.049		mg/Kg		03/11/24 14:29	03/14/24 21:59	1
Xylenes, Total	ND		0.097		mg/Kg		03/11/24 14:29	03/14/24 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/11/24 14:29*	*03/14/24 21:59*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		03/12/24 10:32	03/12/24 16:39	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/12/24 10:32	03/12/24 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*69 - 147*	*03/12/24 10:32*	*03/12/24 16:39*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-40AAB
Date Collected: 03/07/24 11:50
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-17
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/12/24 15:22	03/12/24 19:58	20

Client Sample ID: B-5AB-W1
Date Collected: 03/07/24 13:30
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-18
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.8		mg/Kg		03/11/24 14:29	03/14/24 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/11/24 14:29*	*03/14/24 22:46*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/11/24 14:29	03/14/24 22:46	1
Ethylbenzene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 22:46	1
Toluene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 22:46	1
m,p-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 22:46	1
o-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 22:46	1
Xylenes, Total	ND		0.096		mg/Kg		03/11/24 14:29	03/14/24 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/11/24 14:29*	*03/14/24 22:46*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		03/12/24 10:32	03/12/24 16:51	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/12/24 10:32	03/12/24 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*69 - 147*	*03/12/24 10:32*	*03/12/24 16:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81**		60		mg/Kg		03/12/24 15:22	03/12/24 20:11	20

Client Sample ID: B-5AB-W2
Date Collected: 03/07/24 13:32
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-19
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.8		mg/Kg		03/11/24 14:29	03/14/24 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*03/11/24 14:29*	*03/14/24 23:09*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/11/24 14:29	03/14/24 23:09	1
Ethylbenzene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 23:09	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-5AB-W2

Date Collected: 03/07/24 13:32
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-19
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 23:09	1
m,p-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 23:09	1
o-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 23:09	1
Xylenes, Total	ND		0.095		mg/Kg		03/11/24 14:29	03/14/24 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/11/24 14:29*	*03/14/24 23:09*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		03/12/24 10:32	03/12/24 17:04	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		03/12/24 10:32	03/12/24 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*69 - 147*	*03/12/24 10:32*	*03/12/24 17:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**330**		60		mg/Kg		03/12/24 15:22	03/12/24 20:23	20

Client Sample ID: B-6AB-W1

Date Collected: 03/07/24 13:40
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-20
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/11/24 14:29	03/14/24 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 244*	*03/11/24 14:29*	*03/14/24 23:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 14:29	03/14/24 23:33	1
Ethylbenzene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 23:33	1
Toluene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 23:33	1
m,p-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 23:33	1
o-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 23:33	1
Xylenes, Total	ND		0.099		mg/Kg		03/11/24 14:29	03/14/24 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*39 - 146*	*03/11/24 14:29*	*03/14/24 23:33*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		03/12/24 10:32	03/12/24 17:16	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/12/24 10:32	03/12/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*69 - 147*	*03/12/24 10:32*	*03/12/24 17:16*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-6AB-W1

Lab Sample ID: 885-829-20
Matrix: Solid
Date Collected: 03/07/24 13:40
Date Received: 03/09/24 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68		60		mg/Kg		03/12/24 15:22	03/12/24 20:35	20

Client Sample ID: B-22AB-W1

Lab Sample ID: 885-829-21
Matrix: Solid
Date Collected: 03/07/24 13:44
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.8		mg/Kg		03/11/24 14:29	03/14/24 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/11/24 14:29*	*03/14/24 23:56*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/11/24 14:29	03/14/24 23:56	1
Ethylbenzene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 23:56	1
Toluene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 23:56	1
m,p-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 23:56	1
o-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/14/24 23:56	1
Xylenes, Total	ND		0.097		mg/Kg		03/11/24 14:29	03/14/24 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/11/24 14:29*	*03/14/24 23:56*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/12/24 10:32	03/12/24 17:28	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/12/24 10:32	03/12/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*69 - 147*	*03/12/24 10:32*	*03/12/24 17:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280		60		mg/Kg		03/12/24 15:22	03/12/24 21:12	20

Client Sample ID: B-22AB-W2

Lab Sample ID: 885-829-22
Matrix: Solid
Date Collected: 03/07/24 13:46
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.8		mg/Kg		03/11/24 14:29	03/15/24 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 244*	*03/11/24 14:29*	*03/15/24 00:20*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/11/24 14:29	03/15/24 00:20	1
Ethylbenzene	ND		0.048		mg/Kg		03/11/24 14:29	03/15/24 00:20	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-22AB-W2

Lab Sample ID: 885-829-22
Matrix: Solid
Date Collected: 03/07/24 13:46
Date Received: 03/09/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.048		mg/Kg		03/11/24 14:29	03/15/24 00:20	1
m,p-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/15/24 00:20	1
o-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/15/24 00:20	1
Xylenes, Total	ND		0.096		mg/Kg		03/11/24 14:29	03/15/24 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*03/11/24 14:29*	*03/15/24 00:20*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		03/12/24 10:32	03/12/24 17:40	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/12/24 10:32	03/12/24 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*69 - 147*	*03/12/24 10:32*	*03/12/24 17:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		60		mg/Kg		03/12/24 15:22	03/12/24 21:25	20

Client Sample ID: R-2A-W1

Lab Sample ID: 885-829-23
Matrix: Solid
Date Collected: 03/07/24 13:52
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/11/24 14:29	03/15/24 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/11/24 14:29*	*03/15/24 00:43*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 14:29	03/15/24 00:43	1
Ethylbenzene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 00:43	1
Toluene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 00:43	1
m,p-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 00:43	1
o-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 00:43	1
Xylenes, Total	ND		0.10		mg/Kg		03/11/24 14:29	03/15/24 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/11/24 14:29*	*03/15/24 00:43*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		03/12/24 10:32	03/12/24 18:05	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/12/24 10:32	03/12/24 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*109*		*69 - 147*	*03/12/24 10:32*	*03/12/24 18:05*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: R-2A-W1

Lab Sample ID: 885-829-23
Matrix: Solid
Date Collected: 03/07/24 13:52
Date Received: 03/09/24 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69		60		mg/Kg		03/12/24 15:22	03/12/24 21:37	20

Client Sample ID: R-2A-W2

Lab Sample ID: 885-829-24
Matrix: Solid
Date Collected: 03/07/24 13:54
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.9		mg/Kg		03/11/24 14:29	03/15/24 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/11/24 14:29*	*03/15/24 01:07*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 14:29	03/15/24 01:07	1
Ethylbenzene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 01:07	1
Toluene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 01:07	1
m,p-Xylene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 01:07	1
o-Xylene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 01:07	1
Xylenes, Total	ND		0.099		mg/Kg		03/11/24 14:29	03/15/24 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*39 - 146*	*03/11/24 14:29*	*03/15/24 01:07*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		03/12/24 10:32	03/12/24 18:17	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/12/24 10:32	03/12/24 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*69 - 147*	*03/12/24 10:32*	*03/12/24 18:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/12/24 15:22	03/12/24 21:49	20

Client Sample ID: B-2AAB-W1

Lab Sample ID: 885-829-25
Matrix: Solid
Date Collected: 03/07/24 14:02
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/11/24 14:29	03/15/24 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/11/24 14:29*	*03/15/24 01:30*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 14:29	03/15/24 01:30	1
Ethylbenzene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 01:30	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-2AAB-W1

Lab Sample ID: 885-829-25
Matrix: Solid
Date Collected: 03/07/24 14:02
Date Received: 03/09/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 01:30	1
m,p-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 01:30	1
o-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 01:30	1
Xylenes, Total	ND		0.10		mg/Kg		03/11/24 14:29	03/15/24 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/11/24 14:29*	*03/15/24 01:30*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6		mg/Kg		03/12/24 10:32	03/12/24 18:29	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		03/12/24 10:32	03/12/24 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*69 - 147*	*03/12/24 10:32*	*03/12/24 18:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**440**		60		mg/Kg		03/12/24 15:22	03/12/24 22:26	20

Client Sample ID: B-3AAB-W1

Lab Sample ID: 885-829-26
Matrix: Solid
Date Collected: 03/07/24 14:06
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.9		mg/Kg		03/11/24 14:29	03/15/24 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/11/24 14:29*	*03/15/24 01:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/11/24 14:29	03/15/24 01:54	1
Ethylbenzene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 01:54	1
Toluene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 01:54	1
m,p-Xylene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 01:54	1
o-Xylene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 01:54	1
Xylenes, Total	ND		0.097		mg/Kg		03/11/24 14:29	03/15/24 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/11/24 14:29*	*03/15/24 01:54*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		03/12/24 10:32	03/12/24 18:41	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		03/12/24 10:32	03/12/24 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*69 - 147*	*03/12/24 10:32*	*03/12/24 18:41*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-3AAB-W1

Lab Sample ID: 885-829-26
Matrix: Solid
Date Collected: 03/07/24 14:06
Date Received: 03/09/24 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/12/24 15:22	03/12/24 22:39	20

Client Sample ID: B-9AAB-W1

Lab Sample ID: 885-829-27
Matrix: Solid
Date Collected: 03/07/24 14:10
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/11/24 14:29	03/15/24 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/11/24 14:29*	*03/15/24 02:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 14:29	03/15/24 02:41	1
Ethylbenzene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 02:41	1
Toluene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 02:41	1
m,p-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 02:41	1
o-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 02:41	1
Xylenes, Total	ND		0.099		mg/Kg		03/11/24 14:29	03/15/24 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*39 - 146*	*03/11/24 14:29*	*03/15/24 02:41*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**12**		8.9		mg/Kg		03/12/24 10:32	03/12/24 18:54	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		03/12/24 10:32	03/12/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*69 - 147*	*03/12/24 10:32*	*03/12/24 18:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/12/24 15:22	03/12/24 22:51	20

Client Sample ID: B-11AB-W1

Lab Sample ID: 885-829-28
Matrix: Solid
Date Collected: 03/07/24 14:12
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/11/24 14:29	03/15/24 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 244*	*03/11/24 14:29*	*03/15/24 03:28*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 14:29	03/15/24 03:28	1
Ethylbenzene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 03:28	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-11AB-W1

Lab Sample ID: 885-829-28
Matrix: Solid
Date Collected: 03/07/24 14:12
Date Received: 03/09/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 03:28	1
m,p-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 03:28	1
o-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/15/24 03:28	1
Xylenes, Total	ND		0.099		mg/Kg		03/11/24 14:29	03/15/24 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*03/11/24 14:29*	*03/15/24 03:28*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		03/12/24 10:32	03/12/24 19:06	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/12/24 10:32	03/12/24 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*69 - 147*	*03/12/24 10:32*	*03/12/24 19:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/12/24 15:22	03/12/24 23:03	20

Client Sample ID: B-11AB-W2

Lab Sample ID: 885-829-29
Matrix: Solid
Date Collected: 03/07/24 14:16
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.8		mg/Kg		03/11/24 14:29	03/15/24 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*03/11/24 14:29*	*03/15/24 03:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/11/24 14:29	03/15/24 03:51	1
Ethylbenzene	ND		0.048		mg/Kg		03/11/24 14:29	03/15/24 03:51	1
Toluene	ND		0.048		mg/Kg		03/11/24 14:29	03/15/24 03:51	1
m,p-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/15/24 03:51	1
o-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/15/24 03:51	1
Xylenes, Total	ND		0.095		mg/Kg		03/11/24 14:29	03/15/24 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*39 - 146*	*03/11/24 14:29*	*03/15/24 03:51*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		03/12/24 10:32	03/12/24 19:18	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		03/12/24 10:32	03/12/24 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*69 - 147*	*03/12/24 10:32*	*03/12/24 19:18*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-11AB-W2

Lab Sample ID: 885-829-29
Matrix: Solid
Date Collected: 03/07/24 14:16
Date Received: 03/09/24 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		03/12/24 16:30	03/12/24 22:58	20

Client Sample ID: B-13AB-W1

Lab Sample ID: 885-829-30
Matrix: Solid
Date Collected: 03/07/24 14:30
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.8		mg/Kg		03/11/24 14:29	03/15/24 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*03/11/24 14:29*	*03/15/24 04:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/11/24 14:29	03/15/24 04:15	1
Ethylbenzene	ND		0.048		mg/Kg		03/11/24 14:29	03/15/24 04:15	1
Toluene	ND		0.048		mg/Kg		03/11/24 14:29	03/15/24 04:15	1
m,p-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/15/24 04:15	1
o-Xylene	ND		0.048		mg/Kg		03/11/24 14:29	03/15/24 04:15	1
Xylenes, Total	ND		0.095		mg/Kg		03/11/24 14:29	03/15/24 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*39 - 146*	*03/11/24 14:29*	*03/15/24 04:15*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		03/12/24 10:32	03/12/24 19:30	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		03/12/24 10:32	03/12/24 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*69 - 147*	*03/12/24 10:32*	*03/12/24 19:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/12/24 16:30	03/12/24 23:14	20

Client Sample ID: B-13AB-W2

Lab Sample ID: 885-829-31
Matrix: Solid
Date Collected: 03/07/24 14:32
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.9		mg/Kg		03/11/24 14:29	03/15/24 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/11/24 14:29*	*03/15/24 04:38*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 14:29	03/15/24 04:38	1
Ethylbenzene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 04:38	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-13AB-W2

Date Collected: 03/07/24 14:32
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-31
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 04:38	1
m,p-Xylene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 04:38	1
o-Xylene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 04:38	1
Xylenes, Total	ND		0.098		mg/Kg		03/11/24 14:29	03/15/24 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/11/24 14:29*	*03/15/24 04:38*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		03/12/24 10:32	03/12/24 19:43	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/12/24 10:32	03/12/24 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*69 - 147*	*03/12/24 10:32*	*03/12/24 19:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64**		60		mg/Kg		03/12/24 16:30	03/12/24 23:59	20

Client Sample ID: B-31AB-W1

Date Collected: 03/07/24 14:34
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-32
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.9		mg/Kg		03/11/24 14:29	03/15/24 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/11/24 14:29*	*03/15/24 05:02*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 14:29	03/15/24 05:02	1
Ethylbenzene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 05:02	1
Toluene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 05:02	1
m,p-Xylene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 05:02	1
o-Xylene	ND		0.049		mg/Kg		03/11/24 14:29	03/15/24 05:02	1
Xylenes, Total	ND		0.099		mg/Kg		03/11/24 14:29	03/15/24 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/11/24 14:29*	*03/15/24 05:02*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/12/24 10:32	03/12/24 19:55	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/12/24 10:32	03/12/24 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*69 - 147*	*03/12/24 10:32*	*03/12/24 19:55*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Job ID: 885-829-1
Project/Site: Roy SWD #3

Client Sample ID: B-31AB-W1
Lab Sample ID: 885-829-32
Date Collected: 03/07/24 14:34
Matrix: Solid
Date Received: 03/09/24 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**330**		60		mg/Kg		03/12/24 16:30	03/13/24 00:14	20

Client Sample ID: B-39AAB-W1
Lab Sample ID: 885-829-33
Date Collected: 03/07/24 14:36
Matrix: Solid
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.9		mg/Kg		03/12/24 09:51	03/14/24 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*15 - 244*	*03/12/24 09:51*	*03/14/24 00:29*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/12/24 09:51	03/14/24 00:29	1
Ethylbenzene	ND		0.049		mg/Kg		03/12/24 09:51	03/14/24 00:29	1
Toluene	ND		0.049		mg/Kg		03/12/24 09:51	03/14/24 00:29	1
m,p-Xylene	ND		0.049		mg/Kg		03/12/24 09:51	03/14/24 00:29	1
o-Xylene	ND		0.049		mg/Kg		03/12/24 09:51	03/14/24 00:29	1
Xylenes, Total	ND		0.098		mg/Kg		03/12/24 09:51	03/14/24 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*39 - 146*	*03/12/24 09:51*	*03/14/24 00:29*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		03/12/24 14:00	03/13/24 01:09	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/12/24 14:00	03/13/24 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*69 - 147*	*03/12/24 14:00*	*03/13/24 01:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**		60		mg/Kg		03/12/24 16:30	03/13/24 00:29	20

Client Sample ID: B-40AAB-W1
Lab Sample ID: 885-829-34
Date Collected: 03/07/24 14:40
Matrix: Solid
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/12/24 09:51	03/14/24 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 244*	*03/12/24 09:51*	*03/14/24 00:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/12/24 09:51	03/14/24 00:51	1
Ethylbenzene	ND		0.050		mg/Kg		03/12/24 09:51	03/14/24 00:51	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-40AAB-W1

Lab Sample ID: 885-829-34
Matrix: Solid
Date Collected: 03/07/24 14:40
Date Received: 03/09/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.050		mg/Kg		03/12/24 09:51	03/14/24 00:51	1
m,p-Xylene	ND		0.050		mg/Kg		03/12/24 09:51	03/14/24 00:51	1
o-Xylene	ND		0.050		mg/Kg		03/12/24 09:51	03/14/24 00:51	1
Xylenes, Total	ND		0.10		mg/Kg		03/12/24 09:51	03/14/24 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*03/12/24 09:51*	*03/14/24 00:51*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		03/12/24 14:00	03/13/24 01:21	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/12/24 14:00	03/13/24 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*69 - 147*	*03/12/24 14:00*	*03/13/24 01:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		03/12/24 16:30	03/13/24 01:15	20

Client Sample ID: B-37AAB-W1

Lab Sample ID: 885-829-35
Matrix: Solid
Date Collected: 03/07/24 14:42
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/12/24 15:00	03/14/24 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/12/24 15:00*	*03/14/24 02:40*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/12/24 15:00	03/14/24 02:40	1
Ethylbenzene	ND		0.050		mg/Kg		03/12/24 15:00	03/14/24 02:40	1
Toluene	ND		0.050		mg/Kg		03/12/24 15:00	03/14/24 02:40	1
m,p-Xylene	ND		0.050		mg/Kg		03/12/24 15:00	03/14/24 02:40	1
o-Xylene	ND		0.050		mg/Kg		03/12/24 15:00	03/14/24 02:40	1
Xylenes, Total	ND		0.099		mg/Kg		03/12/24 15:00	03/14/24 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/12/24 15:00*	*03/14/24 02:40*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		03/13/24 08:49	03/14/24 14:59	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/13/24 08:49	03/14/24 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*03/13/24 08:49*	*03/14/24 14:59*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-37AAB-W1

Lab Sample ID: 885-829-35
Matrix: Solid
Date Collected: 03/07/24 14:42
Date Received: 03/09/24 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73		60		mg/Kg		03/13/24 10:18	03/13/24 12:08	20

Client Sample ID: B-27AAB-W1

Lab Sample ID: 885-829-36
Matrix: Solid
Date Collected: 03/07/24 14:44
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.7		mg/Kg		03/12/24 15:00	03/14/24 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 244*	*03/12/24 15:00*	*03/14/24 03:03*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		03/12/24 15:00	03/14/24 03:03	1
Ethylbenzene	ND		0.047		mg/Kg		03/12/24 15:00	03/14/24 03:03	1
Toluene	ND		0.047		mg/Kg		03/12/24 15:00	03/14/24 03:03	1
m,p-Xylene	ND		0.047		mg/Kg		03/12/24 15:00	03/14/24 03:03	1
o-Xylene	ND		0.047		mg/Kg		03/12/24 15:00	03/14/24 03:03	1
Xylenes, Total	ND		0.094		mg/Kg		03/12/24 15:00	03/14/24 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*03/12/24 15:00*	*03/14/24 03:03*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		03/13/24 08:49	03/14/24 15:10	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		03/13/24 08:49	03/14/24 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*03/13/24 08:49*	*03/14/24 15:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		60		mg/Kg		03/13/24 10:18	03/13/24 12:20	20

Client Sample ID: B-27AAB-W2

Lab Sample ID: 885-829-37
Matrix: Solid
Date Collected: 03/07/24 14:50
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.8		mg/Kg		03/12/24 15:00	03/14/24 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/12/24 15:00*	*03/14/24 03:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/12/24 15:00	03/14/24 03:26	1
Ethylbenzene	ND		0.048		mg/Kg		03/12/24 15:00	03/14/24 03:26	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-27AAB-W2

Lab Sample ID: 885-829-37
Matrix: Solid
Date Collected: 03/07/24 14:50
Date Received: 03/09/24 08:30

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.048		mg/Kg		03/12/24 15:00	03/14/24 03:26	1
m,p-Xylene	ND		0.048		mg/Kg		03/12/24 15:00	03/14/24 03:26	1
o-Xylene	ND		0.048		mg/Kg		03/12/24 15:00	03/14/24 03:26	1
Xylenes, Total	ND		0.097		mg/Kg		03/12/24 15:00	03/14/24 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/12/24 15:00*	*03/14/24 03:26*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8		mg/Kg		03/13/24 08:49	03/14/24 15:21	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		03/13/24 08:49	03/14/24 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*03/13/24 08:49*	*03/14/24 15:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		60		mg/Kg		03/13/24 10:18	03/13/24 12:32	20

Client Sample ID: B-36AAB-W1

Lab Sample ID: 885-829-38
Matrix: Solid
Date Collected: 03/07/24 14:52
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.6		mg/Kg		03/12/24 15:00	03/14/24 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 244*	*03/12/24 15:00*	*03/14/24 03:50*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		03/12/24 15:00	03/14/24 03:50	1
Ethylbenzene	ND		0.046		mg/Kg		03/12/24 15:00	03/14/24 03:50	1
Toluene	ND		0.046		mg/Kg		03/12/24 15:00	03/14/24 03:50	1
m,p-Xylene	ND		0.046		mg/Kg		03/12/24 15:00	03/14/24 03:50	1
o-Xylene	ND		0.046		mg/Kg		03/12/24 15:00	03/14/24 03:50	1
Xylenes, Total	ND		0.093		mg/Kg		03/12/24 15:00	03/14/24 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*39 - 146*	*03/12/24 15:00*	*03/14/24 03:50*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		03/13/24 08:49	03/14/24 15:32	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/13/24 08:49	03/14/24 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*03/13/24 08:49*	*03/14/24 15:32*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-36AAB-W1

Lab Sample ID: 885-829-38
Matrix: Solid
Date Collected: 03/07/24 14:52
Date Received: 03/09/24 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**430**		60		mg/Kg		03/13/24 10:18	03/13/24 12:45	20

Client Sample ID: B-33AAB-W1

Lab Sample ID: 885-829-39
Matrix: Solid
Date Collected: 03/07/24 14:54
Date Received: 03/09/24 08:30

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		4.8		mg/Kg		03/12/24 15:00	03/14/24 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 244*	*03/12/24 15:00*	*03/14/24 04:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/12/24 15:00	03/14/24 04:13	1
Ethylbenzene	ND		0.048		mg/Kg		03/12/24 15:00	03/14/24 04:13	1
Toluene	ND		0.048		mg/Kg		03/12/24 15:00	03/14/24 04:13	1
m,p-Xylene	ND		0.048		mg/Kg		03/12/24 15:00	03/14/24 04:13	1
o-Xylene	ND		0.048		mg/Kg		03/12/24 15:00	03/14/24 04:13	1
Xylenes, Total	ND		0.096		mg/Kg		03/12/24 15:00	03/14/24 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/12/24 15:00*	*03/14/24 04:13*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		03/13/24 08:49	03/14/24 15:43	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/13/24 08:49	03/14/24 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*03/13/24 08:49*	*03/14/24 15:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93**		60		mg/Kg		03/13/24 10:18	03/13/24 12:57	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-1514/25-A
Matrix: Solid
Analysis Batch: 1654

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1514

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/11/24 10:47	03/12/24 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 244*	*03/11/24 10:47*	*03/12/24 17:20*	*1*

Lab Sample ID: LCS 885-1514/26-A
Matrix: Solid
Analysis Batch: 1654

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1514

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10			25.0	22.8		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*203*		*15 - 244*

Lab Sample ID: MB 885-1538/1-A
Matrix: Solid
Analysis Batch: 1781

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1538

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/11/24 14:29	03/14/24 18:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 244*	*03/11/24 14:29*	*03/14/24 18:27*	*1*

Lab Sample ID: LCS 885-1538/2-A
Matrix: Solid
Analysis Batch: 1781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1538

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10			25.0	21.3		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*195*		*15 - 244*

Lab Sample ID: 885-829-13 MS
Matrix: Solid
Analysis Batch: 1781

Client Sample ID: B-35AAB
Prep Type: Total/NA
Prep Batch: 1538

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10	ND		24.0	20.4		mg/Kg		85	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*197*		*15 - 244*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-829-13 MSD
Matrix: Solid
Analysis Batch: 1781

Client Sample ID: B-35AAB
Prep Type: Total/NA
Prep Batch: 1538

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C10	ND		23.9	21.1		mg/Kg		89	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*199*		*15 - 244*

Lab Sample ID: MB 885-1570/1-A
Matrix: Solid
Analysis Batch: 1717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1570

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/12/24 09:51	03/13/24 15:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*03/12/24 09:51*	*03/13/24 15:46*	*1*

Lab Sample ID: LCS 885-1570/2-A
Matrix: Solid
Analysis Batch: 1717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1570

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10			25.0	22.7		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*203*		*15 - 244*

Lab Sample ID: MB 885-1598/1-A
Matrix: Solid
Analysis Batch: 1719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1598

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.0		mg/Kg		03/12/24 15:00	03/13/24 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*03/12/24 15:00*	*03/13/24 11:46*	*1*

Lab Sample ID: LCS 885-1598/2-A
Matrix: Solid
Analysis Batch: 1719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1598

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C6-C10			25.0	24.3		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*216*		*15 - 244*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-1514/25-A
Matrix: Solid
Analysis Batch: 1655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1514

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 10:47	03/12/24 17:20	1
Ethylbenzene	ND		0.050		mg/Kg		03/11/24 10:47	03/12/24 17:20	1
Toluene	ND		0.050		mg/Kg		03/11/24 10:47	03/12/24 17:20	1
m,p-Xylene	ND		0.050		mg/Kg		03/11/24 10:47	03/12/24 17:20	1
o-Xylene	ND		0.050		mg/Kg		03/11/24 10:47	03/12/24 17:20	1
Xylenes, Total	ND		0.10		mg/Kg		03/11/24 10:47	03/12/24 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*39 - 146*	*03/11/24 10:47*	*03/12/24 17:20*	*1*

Lab Sample ID: LCS 885-1514/27-A
Matrix: Solid
Analysis Batch: 1655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1514

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.823		mg/Kg		82	70 - 130		
Ethylbenzene			1.00	0.842		mg/Kg		84	70 - 130		
Toluene			1.00	0.842		mg/Kg		84	70 - 130		
o-Xylene			1.00	0.838		mg/Kg		84	70 - 130		
Xylenes, Total			3.00	2.56		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*39 - 146*

Lab Sample ID: MB 885-1538/1-A
Matrix: Solid
Analysis Batch: 1782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1538

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/11/24 14:29	03/14/24 18:27	1
Ethylbenzene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 18:27	1
Toluene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 18:27	1
m,p-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 18:27	1
o-Xylene	ND		0.050		mg/Kg		03/11/24 14:29	03/14/24 18:27	1
Xylenes, Total	ND		0.10		mg/Kg		03/11/24 14:29	03/14/24 18:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*03/11/24 14:29*	*03/14/24 18:27*	*1*

Lab Sample ID: LCS 885-1538/3-A
Matrix: Solid
Analysis Batch: 1782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1538

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.863		mg/Kg		86	70 - 130		
Ethylbenzene			1.00	0.877		mg/Kg		88	70 - 130		
Toluene			1.00	0.882		mg/Kg		88	70 - 130		
o-Xylene			1.00	0.879		mg/Kg		88	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-1538/3-A
Matrix: Solid
Analysis Batch: 1782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1538

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			3.00	2.68		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*39 - 146*

Lab Sample ID: 885-829-14 MS
Matrix: Solid
Analysis Batch: 1782

Client Sample ID: B-36AAB
Prep Type: Total/NA
Prep Batch: 1538

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.978	0.817		mg/Kg		84	70 - 130		
Ethylbenzene	ND		0.978	0.850		mg/Kg		87	70 - 130		
Toluene	ND		0.978	0.836		mg/Kg		85	70 - 130		
o-Xylene	ND		0.978	0.843		mg/Kg		86	70 - 130		
Xylenes, Total	ND		2.94	2.56		mg/Kg		87	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*39 - 146*

Lab Sample ID: 885-829-14 MSD
Matrix: Solid
Analysis Batch: 1782

Client Sample ID: B-36AAB
Prep Type: Total/NA
Prep Batch: 1538

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.986	0.804		mg/Kg		82	70 - 130	2	20
Ethylbenzene	ND		0.986	0.826		mg/Kg		84	70 - 130	3	20
Toluene	ND		0.986	0.813		mg/Kg		82	70 - 130	3	20
o-Xylene	ND		0.986	0.810		mg/Kg		82	70 - 130	4	20
Xylenes, Total	ND		2.96	2.49		mg/Kg		84	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*39 - 146*

Lab Sample ID: MB 885-1570/1-A
Matrix: Solid
Analysis Batch: 1775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1570

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/12/24 09:51	03/13/24 15:46	1
Ethylbenzene	ND		0.050		mg/Kg		03/12/24 09:51	03/13/24 15:46	1
Toluene	ND		0.050		mg/Kg		03/12/24 09:51	03/13/24 15:46	1
m,p-Xylene	ND		0.050		mg/Kg		03/12/24 09:51	03/13/24 15:46	1
o-Xylene	ND		0.050		mg/Kg		03/12/24 09:51	03/13/24 15:46	1
Xylenes, Total	ND		0.10		mg/Kg		03/12/24 09:51	03/13/24 15:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*03/12/24 09:51*	*03/13/24 15:46*	*1*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-1570/3-A
Matrix: Solid
Analysis Batch: 1775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1570

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.856		mg/Kg		86	70 - 130		
Ethylbenzene			1.00	0.860		mg/Kg		86	70 - 130		
Toluene			1.00	0.861		mg/Kg		86	70 - 130		
o-Xylene			1.00	0.864		mg/Kg		86	70 - 130		
Xylenes, Total			3.00	2.59		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*39 - 146*

Lab Sample ID: MB 885-1598/1-A
Matrix: Solid
Analysis Batch: 1720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1598

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/12/24 15:00	03/13/24 11:46	1
Ethylbenzene	ND		0.050		mg/Kg		03/12/24 15:00	03/13/24 11:46	1
Toluene	ND		0.050		mg/Kg		03/12/24 15:00	03/13/24 11:46	1
m,p-Xylene	ND		0.050		mg/Kg		03/12/24 15:00	03/13/24 11:46	1
o-Xylene	ND		0.050		mg/Kg		03/12/24 15:00	03/13/24 11:46	1
Xylenes, Total	ND		0.10		mg/Kg		03/12/24 15:00	03/13/24 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/12/24 15:00*	*03/13/24 11:46*	*1*

Lab Sample ID: LCS 885-1598/3-A
Matrix: Solid
Analysis Batch: 1720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1598

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.927		mg/Kg		93	70 - 130		
Ethylbenzene			1.00	0.952		mg/Kg		95	70 - 130		
Toluene			1.00	0.942		mg/Kg		94	70 - 130		
o-Xylene			1.00	0.947		mg/Kg		95	70 - 130		
Xylenes, Total			3.00	2.88		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*39 - 146*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-1534/1-A
Matrix: Solid
Analysis Batch: 1576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1534

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/11/24 14:10	03/11/24 16:54	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/11/24 14:10	03/11/24 16:54	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-1534/1-A
Matrix: Solid
Analysis Batch: 1576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1534

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		69 - 147	03/11/24 14:10	03/11/24 16:54	1

Lab Sample ID: LCS 885-1534/2-A
Matrix: Solid
Analysis Batch: 1576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1534

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	48.2		mg/Kg		96	62 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	101		69 - 147

Lab Sample ID: 885-829-12 MS
Matrix: Solid
Analysis Batch: 1576

Client Sample ID: B-33AAB
Prep Type: Total/NA
Prep Batch: 1534

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND	F2 F1	45.9	38.8		mg/Kg		84	54 - 135		

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	99		69 - 147

Lab Sample ID: 885-829-12 MSD
Matrix: Solid
Analysis Batch: 1576

Client Sample ID: B-33AAB
Prep Type: Total/NA
Prep Batch: 1534

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND	F2 F1	46.1	72.8	F1 F2	mg/Kg		158	54 - 135	61	29

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	107		69 - 147

Lab Sample ID: MB 885-1575/1-A
Matrix: Solid
Analysis Batch: 1646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1575

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/12/24 10:32	03/12/24 15:26	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/12/24 10:32	03/12/24 15:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		69 - 147	03/12/24 10:32	03/12/24 15:26	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 885-1575/2-A
Matrix: Solid
Analysis Batch: 1646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1575

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	41.1		mg/Kg		82	62 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*99*		*69 - 147*

Lab Sample ID: 885-829-32 MS
Matrix: Solid
Analysis Batch: 1646

Client Sample ID: B-31AB-W1
Prep Type: Total/NA
Prep Batch: 1575

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		47.3	36.0		mg/Kg		76	54 - 135		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*99*		*69 - 147*

Lab Sample ID: 885-829-32 MSD
Matrix: Solid
Analysis Batch: 1646

Client Sample ID: B-31AB-W1
Prep Type: Total/NA
Prep Batch: 1575

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		47.0	36.2		mg/Kg		77	54 - 135	0	29

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*99*		*69 - 147*

Lab Sample ID: MB 885-1591/1-A
Matrix: Solid
Analysis Batch: 1646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1591

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/12/24 14:00	03/12/24 20:43	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/12/24 14:00	03/12/24 20:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*69 - 147*	*03/12/24 14:00*	*03/12/24 20:43*	*1*

Lab Sample ID: LCS 885-1591/2-A
Matrix: Solid
Analysis Batch: 1646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1591

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	38.8		mg/Kg		78	62 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 885-1591/2-A
Matrix: Solid
Analysis Batch: 1646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1591

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	94		69 - 147

Lab Sample ID: 885-829-34 MS
Matrix: Solid
Analysis Batch: 1646

Client Sample ID: B-40AAB-W1
Prep Type: Total/NA
Prep Batch: 1591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		47.4	34.8		mg/Kg		73	54 - 135		

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	97		69 - 147

Lab Sample ID: 885-829-34 MSD
Matrix: Solid
Analysis Batch: 1646

Client Sample ID: B-40AAB-W1
Prep Type: Total/NA
Prep Batch: 1591

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		47.7	36.8		mg/Kg		77	54 - 135	6	29

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	96		69 - 147

Lab Sample ID: MB 885-1624/1-A
Matrix: Solid
Analysis Batch: 1713

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1624

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/13/24 08:49	03/14/24 09:59	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/13/24 08:49	03/14/24 09:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134	03/13/24 08:49	03/14/24 09:59	1

Lab Sample ID: LCS 885-1624/2-A
Matrix: Solid
Analysis Batch: 1713

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1624

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	49.3		mg/Kg		99	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	89		62 - 134

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-829-A-39-C MS
Matrix: Solid
Analysis Batch: 1713

Client Sample ID: 885-829-A-39-C MS
Prep Type: Total/NA
Prep Batch: 1624

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		46.8	47.5		mg/Kg		102	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*

Lab Sample ID: 885-829-A-39-D MSD
Matrix: Solid
Analysis Batch: 1713

Client Sample ID: 885-829-A-39-D MSD
Prep Type: Total/NA
Prep Batch: 1624

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		47.6	47.7		mg/Kg		100	44 - 136	0	29

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-1587/1-A
Matrix: Solid
Analysis Batch: 1637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1587

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		03/12/24 13:11	03/12/24 14:54	1

Lab Sample ID: LCS 885-1587/2-A
Matrix: Solid
Analysis Batch: 1637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1587

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.2		mg/Kg		94	90 - 110		

Lab Sample ID: 885-829-4 MS
Matrix: Solid
Analysis Batch: 1637

Client Sample ID: B-2A
Prep Type: Total/NA
Prep Batch: 1587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	67		29.9	94.8		mg/Kg		91	50 - 150		

Lab Sample ID: 885-829-4 MSD
Matrix: Solid
Analysis Batch: 1637

Client Sample ID: B-2A
Prep Type: Total/NA
Prep Batch: 1587

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	67		30.0	94.9		mg/Kg		92	50 - 150	0	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-1603/1-A
Matrix: Solid
Analysis Batch: 1651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1603

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		03/12/24 15:22	03/12/24 16:23	1

Lab Sample ID: LCS 885-1603/2-A
Matrix: Solid
Analysis Batch: 1651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1603

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.1		mg/Kg		94	90 - 110		

Lab Sample ID: 885-829-16 MS
Matrix: Solid
Analysis Batch: 1651

Client Sample ID: B-39AAB
Prep Type: Total/NA
Prep Batch: 1603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		29.9	ND		mg/Kg		NC	50 - 150		

Lab Sample ID: 885-829-16 MSD
Matrix: Solid
Analysis Batch: 1651

Client Sample ID: B-39AAB
Prep Type: Total/NA
Prep Batch: 1603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		29.9	ND		mg/Kg		NC	50 - 150	NC	20

Lab Sample ID: 885-829-20 MS
Matrix: Solid
Analysis Batch: 1651

Client Sample ID: B-6AB-W1
Prep Type: Total/NA
Prep Batch: 1603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	68		30.0	95.7		mg/Kg		93	50 - 150		

Lab Sample ID: 885-829-20 MSD
Matrix: Solid
Analysis Batch: 1651

Client Sample ID: B-6AB-W1
Prep Type: Total/NA
Prep Batch: 1603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	68		29.8	94.3		mg/Kg		89	50 - 150	1	20

Lab Sample ID: MB 885-1610/1-A
Matrix: Solid
Analysis Batch: 1637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1610

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		03/12/24 16:30	03/12/24 22:28	1

Lab Sample ID: LCS 885-1610/2-A
Matrix: Solid
Analysis Batch: 1637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1610

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.2		mg/Kg		95	90 - 110		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-829-33 MS
Matrix: Solid
Analysis Batch: 1637

Client Sample ID: B-39AAB-W1
Prep Type: Total/NA
Prep Batch: 1610

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	340		30.0	368	4	mg/Kg		89	50 - 150		

Lab Sample ID: 885-829-33 MSD
Matrix: Solid
Analysis Batch: 1637

Client Sample ID: B-39AAB-W1
Prep Type: Total/NA
Prep Batch: 1610

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	340		29.9	379	4	mg/Kg		125	50 - 150	3	20

Lab Sample ID: MB 885-1629/1-A
Matrix: Solid
Analysis Batch: 1697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1629

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		03/13/24 10:18	03/13/24 11:04	1

Lab Sample ID: LCS 885-1629/2-A
Matrix: Solid
Analysis Batch: 1697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1629

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.2	28.6		mg/Kg		95	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

GC VOA

Prep Batch: 1514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-1	B-5AB	Total/NA	Solid	5030C	
885-829-2	B-6AB	Total/NA	Solid	5030C	
885-829-3	B-22AB	Total/NA	Solid	5030C	
885-829-4	B-2A	Total/NA	Solid	5030C	
885-829-5	B-2AAB	Total/NA	Solid	5030C	
885-829-6	B-3AAB	Total/NA	Solid	5030C	
885-829-7	B-9AAB	Total/NA	Solid	5030C	
885-829-8	B-11AB	Total/NA	Solid	5030C	
885-829-9	B-13AB	Total/NA	Solid	5030C	
885-829-10	B-27AAB	Total/NA	Solid	5030C	
885-829-11	B-31AB	Total/NA	Solid	5030C	
885-829-12	B-33AAB	Total/NA	Solid	5030C	
MB 885-1514/25-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-1514/26-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-1514/27-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 1538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-13	B-35AAB	Total/NA	Solid	5030C	
885-829-14	B-36AAB	Total/NA	Solid	5030C	
885-829-15	B-37AAB	Total/NA	Solid	5030C	
885-829-16	B-39AAB	Total/NA	Solid	5030C	
885-829-17	B-40AAB	Total/NA	Solid	5030C	
885-829-18	B-5AB-W1	Total/NA	Solid	5030C	
885-829-19	B-5AB-W2	Total/NA	Solid	5030C	
885-829-20	B-6AB-W1	Total/NA	Solid	5030C	
885-829-21	B-22AB-W1	Total/NA	Solid	5030C	
885-829-22	B-22AB-W2	Total/NA	Solid	5030C	
885-829-23	R-2A-W1	Total/NA	Solid	5030C	
885-829-24	R-2A-W2	Total/NA	Solid	5030C	
885-829-25	B-2AAB-W1	Total/NA	Solid	5030C	
885-829-26	B-3AAB-W1	Total/NA	Solid	5030C	
885-829-27	B-9AAB-W1	Total/NA	Solid	5030C	
885-829-28	B-11AB-W1	Total/NA	Solid	5030C	
885-829-29	B-11AB-W2	Total/NA	Solid	5030C	
885-829-30	B-13AB-W1	Total/NA	Solid	5030C	
885-829-31	B-13AB-W2	Total/NA	Solid	5030C	
885-829-32	B-31AB-W1	Total/NA	Solid	5030C	
MB 885-1538/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-1538/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-1538/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-829-13 MS	B-35AAB	Total/NA	Solid	5030C	
885-829-13 MSD	B-35AAB	Total/NA	Solid	5030C	
885-829-14 MS	B-36AAB	Total/NA	Solid	5030C	
885-829-14 MSD	B-36AAB	Total/NA	Solid	5030C	

Prep Batch: 1570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-33	B-39AAB-W1	Total/NA	Solid	5030C	
885-829-34	B-40AAB-W1	Total/NA	Solid	5030C	
MB 885-1570/1-A	Method Blank	Total/NA	Solid	5030C	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

GC VOA (Continued)

Prep Batch: 1570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-1570/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-1570/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 1598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-35	B-37AAB-W1	Total/NA	Solid	5030C	
885-829-36	B-27AAB-W1	Total/NA	Solid	5030C	
885-829-37	B-27AAB-W2	Total/NA	Solid	5030C	
885-829-38	B-36AAB-W1	Total/NA	Solid	5030C	
885-829-39	B-33AAB-W1	Total/NA	Solid	5030C	
MB 885-1598/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-1598/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-1598/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 1654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-1	B-5AB	Total/NA	Solid	8015D	1514
885-829-2	B-6AB	Total/NA	Solid	8015D	1514
885-829-3	B-22AB	Total/NA	Solid	8015D	1514
885-829-4	B-2A	Total/NA	Solid	8015D	1514
885-829-5	B-2AAB	Total/NA	Solid	8015D	1514
885-829-6	B-3AAB	Total/NA	Solid	8015D	1514
885-829-7	B-9AAB	Total/NA	Solid	8015D	1514
885-829-8	B-11AB	Total/NA	Solid	8015D	1514
885-829-9	B-13AB	Total/NA	Solid	8015D	1514
885-829-10	B-27AAB	Total/NA	Solid	8015D	1514
885-829-11	B-31AB	Total/NA	Solid	8015D	1514
885-829-12	B-33AAB	Total/NA	Solid	8015D	1514
MB 885-1514/25-A	Method Blank	Total/NA	Solid	8015D	1514
LCS 885-1514/26-A	Lab Control Sample	Total/NA	Solid	8015D	1514

Analysis Batch: 1655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-1	B-5AB	Total/NA	Solid	8021B	1514
885-829-2	B-6AB	Total/NA	Solid	8021B	1514
885-829-3	B-22AB	Total/NA	Solid	8021B	1514
885-829-4	B-2A	Total/NA	Solid	8021B	1514
885-829-5	B-2AAB	Total/NA	Solid	8021B	1514
885-829-6	B-3AAB	Total/NA	Solid	8021B	1514
885-829-7	B-9AAB	Total/NA	Solid	8021B	1514
885-829-8	B-11AB	Total/NA	Solid	8021B	1514
885-829-9	B-13AB	Total/NA	Solid	8021B	1514
885-829-10	B-27AAB	Total/NA	Solid	8021B	1514
885-829-11	B-31AB	Total/NA	Solid	8021B	1514
885-829-12	B-33AAB	Total/NA	Solid	8021B	1514
MB 885-1514/25-A	Method Blank	Total/NA	Solid	8021B	1514
LCS 885-1514/27-A	Lab Control Sample	Total/NA	Solid	8021B	1514

Analysis Batch: 1717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-33	B-39AAB-W1	Total/NA	Solid	8015D	1570

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

GC VOA (Continued)

Analysis Batch: 1717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-34	B-40AAB-W1	Total/NA	Solid	8015D	1570
MB 885-1570/1-A	Method Blank	Total/NA	Solid	8015D	1570
LCS 885-1570/2-A	Lab Control Sample	Total/NA	Solid	8015D	1570

Analysis Batch: 1719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-35	B-37AAB-W1	Total/NA	Solid	8015D	1598
885-829-36	B-27AAB-W1	Total/NA	Solid	8015D	1598
885-829-37	B-27AAB-W2	Total/NA	Solid	8015D	1598
885-829-38	B-36AAB-W1	Total/NA	Solid	8015D	1598
885-829-39	B-33AAB-W1	Total/NA	Solid	8015D	1598
MB 885-1598/1-A	Method Blank	Total/NA	Solid	8015D	1598
LCS 885-1598/2-A	Lab Control Sample	Total/NA	Solid	8015D	1598

Analysis Batch: 1720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-35	B-37AAB-W1	Total/NA	Solid	8021B	1598
885-829-36	B-27AAB-W1	Total/NA	Solid	8021B	1598
885-829-37	B-27AAB-W2	Total/NA	Solid	8021B	1598
885-829-38	B-36AAB-W1	Total/NA	Solid	8021B	1598
885-829-39	B-33AAB-W1	Total/NA	Solid	8021B	1598
MB 885-1598/1-A	Method Blank	Total/NA	Solid	8021B	1598
LCS 885-1598/3-A	Lab Control Sample	Total/NA	Solid	8021B	1598

Analysis Batch: 1775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-33	B-39AAB-W1	Total/NA	Solid	8021B	1570
885-829-34	B-40AAB-W1	Total/NA	Solid	8021B	1570
MB 885-1570/1-A	Method Blank	Total/NA	Solid	8021B	1570
LCS 885-1570/3-A	Lab Control Sample	Total/NA	Solid	8021B	1570

Analysis Batch: 1781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-13	B-35AAB	Total/NA	Solid	8015D	1538
885-829-14	B-36AAB	Total/NA	Solid	8015D	1538
885-829-15	B-37AAB	Total/NA	Solid	8015D	1538
885-829-16	B-39AAB	Total/NA	Solid	8015D	1538
885-829-17	B-40AAB	Total/NA	Solid	8015D	1538
885-829-18	B-5AB-W1	Total/NA	Solid	8015D	1538
885-829-19	B-5AB-W2	Total/NA	Solid	8015D	1538
885-829-20	B-6AB-W1	Total/NA	Solid	8015D	1538
885-829-21	B-22AB-W1	Total/NA	Solid	8015D	1538
885-829-22	B-22AB-W2	Total/NA	Solid	8015D	1538
885-829-23	R-2A-W1	Total/NA	Solid	8015D	1538
885-829-24	R-2A-W2	Total/NA	Solid	8015D	1538
885-829-25	B-2AAB-W1	Total/NA	Solid	8015D	1538
885-829-26	B-3AAB-W1	Total/NA	Solid	8015D	1538
885-829-27	B-9AAB-W1	Total/NA	Solid	8015D	1538
885-829-28	B-11AB-W1	Total/NA	Solid	8015D	1538
885-829-29	B-11AB-W2	Total/NA	Solid	8015D	1538
885-829-30	B-13AB-W1	Total/NA	Solid	8015D	1538

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

GC VOA (Continued)

Analysis Batch: 1781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-31	B-13AB-W2	Total/NA	Solid	8015D	1538
885-829-32	B-31AB-W1	Total/NA	Solid	8015D	1538
MB 885-1538/1-A	Method Blank	Total/NA	Solid	8015D	1538
LCS 885-1538/2-A	Lab Control Sample	Total/NA	Solid	8015D	1538
885-829-13 MS	B-35AAB	Total/NA	Solid	8015D	1538
885-829-13 MSD	B-35AAB	Total/NA	Solid	8015D	1538

Analysis Batch: 1782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-13	B-35AAB	Total/NA	Solid	8021B	1538
885-829-14	B-36AAB	Total/NA	Solid	8021B	1538
885-829-15	B-37AAB	Total/NA	Solid	8021B	1538
885-829-16	B-39AAB	Total/NA	Solid	8021B	1538
885-829-17	B-40AAB	Total/NA	Solid	8021B	1538
885-829-18	B-5AB-W1	Total/NA	Solid	8021B	1538
885-829-19	B-5AB-W2	Total/NA	Solid	8021B	1538
885-829-20	B-6AB-W1	Total/NA	Solid	8021B	1538
885-829-21	B-22AB-W1	Total/NA	Solid	8021B	1538
885-829-22	B-22AB-W2	Total/NA	Solid	8021B	1538
885-829-23	R-2A-W1	Total/NA	Solid	8021B	1538
885-829-24	R-2A-W2	Total/NA	Solid	8021B	1538
885-829-25	B-2AAB-W1	Total/NA	Solid	8021B	1538
885-829-26	B-3AAB-W1	Total/NA	Solid	8021B	1538
885-829-27	B-9AAB-W1	Total/NA	Solid	8021B	1538
885-829-28	B-11AB-W1	Total/NA	Solid	8021B	1538
885-829-29	B-11AB-W2	Total/NA	Solid	8021B	1538
885-829-30	B-13AB-W1	Total/NA	Solid	8021B	1538
885-829-31	B-13AB-W2	Total/NA	Solid	8021B	1538
885-829-32	B-31AB-W1	Total/NA	Solid	8021B	1538
MB 885-1538/1-A	Method Blank	Total/NA	Solid	8021B	1538
LCS 885-1538/3-A	Lab Control Sample	Total/NA	Solid	8021B	1538
885-829-14 MS	B-36AAB	Total/NA	Solid	8021B	1538
885-829-14 MSD	B-36AAB	Total/NA	Solid	8021B	1538

GC Semi VOA

Prep Batch: 1534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-1	B-5AB	Total/NA	Solid	SHAKE	
885-829-2	B-6AB	Total/NA	Solid	SHAKE	
885-829-3	B-22AB	Total/NA	Solid	SHAKE	
885-829-4	B-2A	Total/NA	Solid	SHAKE	
885-829-5	B-2AAB	Total/NA	Solid	SHAKE	
885-829-6	B-3AAB	Total/NA	Solid	SHAKE	
885-829-7	B-9AAB	Total/NA	Solid	SHAKE	
885-829-8	B-11AB	Total/NA	Solid	SHAKE	
885-829-9	B-13AB	Total/NA	Solid	SHAKE	
885-829-10	B-27AAB	Total/NA	Solid	SHAKE	
885-829-11	B-31AB	Total/NA	Solid	SHAKE	
885-829-12	B-33AAB	Total/NA	Solid	SHAKE	
MB 885-1534/1-A	Method Blank	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

GC Semi VOA (Continued)

Prep Batch: 1534 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-1534/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-829-12 MS	B-33AAB	Total/NA	Solid	SHAKE	
885-829-12 MSD	B-33AAB	Total/NA	Solid	SHAKE	

Prep Batch: 1575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-13	B-35AAB	Total/NA	Solid	SHAKE	
885-829-14	B-36AAB	Total/NA	Solid	SHAKE	
885-829-15	B-37AAB	Total/NA	Solid	SHAKE	
885-829-16	B-39AAB	Total/NA	Solid	SHAKE	
885-829-17	B-40AAB	Total/NA	Solid	SHAKE	
885-829-18	B-5AB-W1	Total/NA	Solid	SHAKE	
885-829-19	B-5AB-W2	Total/NA	Solid	SHAKE	
885-829-20	B-6AB-W1	Total/NA	Solid	SHAKE	
885-829-21	B-22AB-W1	Total/NA	Solid	SHAKE	
885-829-22	B-22AB-W2	Total/NA	Solid	SHAKE	
885-829-23	R-2A-W1	Total/NA	Solid	SHAKE	
885-829-24	R-2A-W2	Total/NA	Solid	SHAKE	
885-829-25	B-2AAB-W1	Total/NA	Solid	SHAKE	
885-829-26	B-3AAB-W1	Total/NA	Solid	SHAKE	
885-829-27	B-9AAB-W1	Total/NA	Solid	SHAKE	
885-829-28	B-11AB-W1	Total/NA	Solid	SHAKE	
885-829-29	B-11AB-W2	Total/NA	Solid	SHAKE	
885-829-30	B-13AB-W1	Total/NA	Solid	SHAKE	
885-829-31	B-13AB-W2	Total/NA	Solid	SHAKE	
885-829-32	B-31AB-W1	Total/NA	Solid	SHAKE	
MB 885-1575/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-1575/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-829-32 MS	B-31AB-W1	Total/NA	Solid	SHAKE	
885-829-32 MSD	B-31AB-W1	Total/NA	Solid	SHAKE	

Analysis Batch: 1576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-1	B-5AB	Total/NA	Solid	8015D	1534
885-829-2	B-6AB	Total/NA	Solid	8015D	1534
885-829-3	B-22AB	Total/NA	Solid	8015D	1534
885-829-4	B-2A	Total/NA	Solid	8015D	1534
885-829-5	B-2AAB	Total/NA	Solid	8015D	1534
885-829-6	B-3AAB	Total/NA	Solid	8015D	1534
885-829-7	B-9AAB	Total/NA	Solid	8015D	1534
885-829-8	B-11AB	Total/NA	Solid	8015D	1534
885-829-9	B-13AB	Total/NA	Solid	8015D	1534
885-829-10	B-27AAB	Total/NA	Solid	8015D	1534
885-829-11	B-31AB	Total/NA	Solid	8015D	1534
885-829-12	B-33AAB	Total/NA	Solid	8015D	1534
MB 885-1534/1-A	Method Blank	Total/NA	Solid	8015D	1534
LCS 885-1534/2-A	Lab Control Sample	Total/NA	Solid	8015D	1534
885-829-12 MS	B-33AAB	Total/NA	Solid	8015D	1534
885-829-12 MSD	B-33AAB	Total/NA	Solid	8015D	1534

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

GC Semi VOA

Prep Batch: 1591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-33	B-39AAB-W1	Total/NA	Solid	SHAKE	
885-829-34	B-40AAB-W1	Total/NA	Solid	SHAKE	
MB 885-1591/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-1591/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-829-34 MS	B-40AAB-W1	Total/NA	Solid	SHAKE	
885-829-34 MSD	B-40AAB-W1	Total/NA	Solid	SHAKE	

Prep Batch: 1624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-35	B-37AAB-W1	Total/NA	Solid	SHAKE	
885-829-36	B-27AAB-W1	Total/NA	Solid	SHAKE	
885-829-37	B-27AAB-W2	Total/NA	Solid	SHAKE	
885-829-38	B-36AAB-W1	Total/NA	Solid	SHAKE	
885-829-39	B-33AAB-W1	Total/NA	Solid	SHAKE	
MB 885-1624/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-1624/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-829-A-39-C MS	885-829-A-39-C MS	Total/NA	Solid	SHAKE	
885-829-A-39-D MSD	885-829-A-39-D MSD	Total/NA	Solid	SHAKE	

Analysis Batch: 1646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-13	B-35AAB	Total/NA	Solid	8015D	1575
885-829-14	B-36AAB	Total/NA	Solid	8015D	1575
885-829-15	B-37AAB	Total/NA	Solid	8015D	1575
885-829-16	B-39AAB	Total/NA	Solid	8015D	1575
885-829-17	B-40AAB	Total/NA	Solid	8015D	1575
885-829-18	B-5AB-W1	Total/NA	Solid	8015D	1575
885-829-19	B-5AB-W2	Total/NA	Solid	8015D	1575
885-829-20	B-6AB-W1	Total/NA	Solid	8015D	1575
885-829-21	B-22AB-W1	Total/NA	Solid	8015D	1575
885-829-22	B-22AB-W2	Total/NA	Solid	8015D	1575
885-829-23	R-2A-W1	Total/NA	Solid	8015D	1575
885-829-24	R-2A-W2	Total/NA	Solid	8015D	1575
885-829-25	B-2AAB-W1	Total/NA	Solid	8015D	1575
885-829-26	B-3AAB-W1	Total/NA	Solid	8015D	1575
885-829-27	B-9AAB-W1	Total/NA	Solid	8015D	1575
885-829-28	B-11AB-W1	Total/NA	Solid	8015D	1575
885-829-29	B-11AB-W2	Total/NA	Solid	8015D	1575
885-829-30	B-13AB-W1	Total/NA	Solid	8015D	1575
885-829-31	B-13AB-W2	Total/NA	Solid	8015D	1575
885-829-32	B-31AB-W1	Total/NA	Solid	8015D	1575
885-829-33	B-39AAB-W1	Total/NA	Solid	8015D	1591
885-829-34	B-40AAB-W1	Total/NA	Solid	8015D	1591
MB 885-1575/1-A	Method Blank	Total/NA	Solid	8015D	1575
MB 885-1591/1-A	Method Blank	Total/NA	Solid	8015D	1591
LCS 885-1575/2-A	Lab Control Sample	Total/NA	Solid	8015D	1575
LCS 885-1591/2-A	Lab Control Sample	Total/NA	Solid	8015D	1591
885-829-32 MS	B-31AB-W1	Total/NA	Solid	8015D	1575
885-829-32 MSD	B-31AB-W1	Total/NA	Solid	8015D	1575
885-829-34 MS	B-40AAB-W1	Total/NA	Solid	8015D	1591
885-829-34 MSD	B-40AAB-W1	Total/NA	Solid	8015D	1591

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

GC Semi VOA

Analysis Batch: 1713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-35	B-37AAB-W1	Total/NA	Solid	8015D	1624
885-829-36	B-27AAB-W1	Total/NA	Solid	8015D	1624
885-829-37	B-27AAB-W2	Total/NA	Solid	8015D	1624
885-829-38	B-36AAB-W1	Total/NA	Solid	8015D	1624
885-829-39	B-33AAB-W1	Total/NA	Solid	8015D	1624
MB 885-1624/1-A	Method Blank	Total/NA	Solid	8015D	1624
LCS 885-1624/2-A	Lab Control Sample	Total/NA	Solid	8015D	1624
885-829-A-39-C MS	885-829-A-39-C MS	Total/NA	Solid	8015D	1624
885-829-A-39-D MSD	885-829-A-39-D MSD	Total/NA	Solid	8015D	1624

HPLC/IC

Prep Batch: 1587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-1	B-5AB	Total/NA	Solid	300_Prep	
885-829-2	B-6AB	Total/NA	Solid	300_Prep	
885-829-3	B-22AB	Total/NA	Solid	300_Prep	
885-829-4	B-2A	Total/NA	Solid	300_Prep	
885-829-5	B-2AAB	Total/NA	Solid	300_Prep	
885-829-6	B-3AAB	Total/NA	Solid	300_Prep	
885-829-7	B-9AAB	Total/NA	Solid	300_Prep	
885-829-8	B-11AB	Total/NA	Solid	300_Prep	
MB 885-1587/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-1587/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-829-4 MS	B-2A	Total/NA	Solid	300_Prep	
885-829-4 MSD	B-2A	Total/NA	Solid	300_Prep	

Prep Batch: 1603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-9	B-13AB	Total/NA	Solid	300_Prep	
885-829-10	B-27AAB	Total/NA	Solid	300_Prep	
885-829-11	B-31AB	Total/NA	Solid	300_Prep	
885-829-12	B-33AAB	Total/NA	Solid	300_Prep	
885-829-13	B-35AAB	Total/NA	Solid	300_Prep	
885-829-14	B-36AAB	Total/NA	Solid	300_Prep	
885-829-15	B-37AAB	Total/NA	Solid	300_Prep	
885-829-16	B-39AAB	Total/NA	Solid	300_Prep	
885-829-17	B-40AAB	Total/NA	Solid	300_Prep	
885-829-18	B-5AB-W1	Total/NA	Solid	300_Prep	
885-829-19	B-5AB-W2	Total/NA	Solid	300_Prep	
885-829-20	B-6AB-W1	Total/NA	Solid	300_Prep	
885-829-21	B-22AB-W1	Total/NA	Solid	300_Prep	
885-829-22	B-22AB-W2	Total/NA	Solid	300_Prep	
885-829-23	R-2A-W1	Total/NA	Solid	300_Prep	
885-829-24	R-2A-W2	Total/NA	Solid	300_Prep	
885-829-25	B-2AAB-W1	Total/NA	Solid	300_Prep	
885-829-26	B-3AAB-W1	Total/NA	Solid	300_Prep	
885-829-27	B-9AAB-W1	Total/NA	Solid	300_Prep	
885-829-28	B-11AB-W1	Total/NA	Solid	300_Prep	
MB 885-1603/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-1603/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

HPLC/IC (Continued)

Prep Batch: 1603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-16 MS	B-39AAB	Total/NA	Solid	300_Prep	
885-829-16 MSD	B-39AAB	Total/NA	Solid	300_Prep	
885-829-20 MS	B-6AB-W1	Total/NA	Solid	300_Prep	
885-829-20 MSD	B-6AB-W1	Total/NA	Solid	300_Prep	

Prep Batch: 1610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-29	B-11AB-W2	Total/NA	Solid	300_Prep	
885-829-30	B-13AB-W1	Total/NA	Solid	300_Prep	
885-829-31	B-13AB-W2	Total/NA	Solid	300_Prep	
885-829-32	B-31AB-W1	Total/NA	Solid	300_Prep	
885-829-33	B-39AAB-W1	Total/NA	Solid	300_Prep	
885-829-34	B-40AAB-W1	Total/NA	Solid	300_Prep	
MB 885-1610/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-1610/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-829-33 MS	B-39AAB-W1	Total/NA	Solid	300_Prep	
885-829-33 MSD	B-39AAB-W1	Total/NA	Solid	300_Prep	

Prep Batch: 1629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-35	B-37AAB-W1	Total/NA	Solid	300_Prep	
885-829-36	B-27AAB-W1	Total/NA	Solid	300_Prep	
885-829-37	B-27AAB-W2	Total/NA	Solid	300_Prep	
885-829-38	B-36AAB-W1	Total/NA	Solid	300_Prep	
885-829-39	B-33AAB-W1	Total/NA	Solid	300_Prep	
MB 885-1629/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-1629/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 1637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-1	B-5AB	Total/NA	Solid	300.0	1587
885-829-2	B-6AB	Total/NA	Solid	300.0	1587
885-829-3	B-22AB	Total/NA	Solid	300.0	1587
885-829-4	B-2A	Total/NA	Solid	300.0	1587
885-829-5	B-2AAB	Total/NA	Solid	300.0	1587
885-829-6	B-3AAB	Total/NA	Solid	300.0	1587
885-829-7	B-9AAB	Total/NA	Solid	300.0	1587
885-829-8	B-11AB	Total/NA	Solid	300.0	1587
885-829-29	B-11AB-W2	Total/NA	Solid	300.0	1610
885-829-30	B-13AB-W1	Total/NA	Solid	300.0	1610
885-829-31	B-13AB-W2	Total/NA	Solid	300.0	1610
885-829-32	B-31AB-W1	Total/NA	Solid	300.0	1610
885-829-33	B-39AAB-W1	Total/NA	Solid	300.0	1610
885-829-34	B-40AAB-W1	Total/NA	Solid	300.0	1610
MB 885-1587/1-A	Method Blank	Total/NA	Solid	300.0	1587
MB 885-1610/1-A	Method Blank	Total/NA	Solid	300.0	1610
LCS 885-1587/2-A	Lab Control Sample	Total/NA	Solid	300.0	1587
LCS 885-1610/2-A	Lab Control Sample	Total/NA	Solid	300.0	1610
885-829-4 MS	B-2A	Total/NA	Solid	300.0	1587
885-829-4 MSD	B-2A	Total/NA	Solid	300.0	1587
885-829-33 MS	B-39AAB-W1	Total/NA	Solid	300.0	1610

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

HPLC/IC (Continued)

Analysis Batch: 1637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-33 MSD	B-39AAB-W1	Total/NA	Solid	300.0	1610

Analysis Batch: 1651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-9	B-13AB	Total/NA	Solid	300.0	1603
885-829-10	B-27AAB	Total/NA	Solid	300.0	1603
885-829-11	B-31AB	Total/NA	Solid	300.0	1603
885-829-12	B-33AAB	Total/NA	Solid	300.0	1603
885-829-13	B-35AAB	Total/NA	Solid	300.0	1603
885-829-14	B-36AAB	Total/NA	Solid	300.0	1603
885-829-15	B-37AAB	Total/NA	Solid	300.0	1603
885-829-16	B-39AAB	Total/NA	Solid	300.0	1603
885-829-17	B-40AAB	Total/NA	Solid	300.0	1603
885-829-18	B-5AB-W1	Total/NA	Solid	300.0	1603
885-829-19	B-5AB-W2	Total/NA	Solid	300.0	1603
885-829-20	B-6AB-W1	Total/NA	Solid	300.0	1603
885-829-21	B-22AB-W1	Total/NA	Solid	300.0	1603
885-829-22	B-22AB-W2	Total/NA	Solid	300.0	1603
885-829-23	R-2A-W1	Total/NA	Solid	300.0	1603
885-829-24	R-2A-W2	Total/NA	Solid	300.0	1603
885-829-25	B-2AAB-W1	Total/NA	Solid	300.0	1603
885-829-26	B-3AAB-W1	Total/NA	Solid	300.0	1603
885-829-27	B-9AAB-W1	Total/NA	Solid	300.0	1603
885-829-28	B-11AB-W1	Total/NA	Solid	300.0	1603
MB 885-1603/1-A	Method Blank	Total/NA	Solid	300.0	1603
LCS 885-1603/2-A	Lab Control Sample	Total/NA	Solid	300.0	1603
885-829-16 MS	B-39AAB	Total/NA	Solid	300.0	1603
885-829-16 MSD	B-39AAB	Total/NA	Solid	300.0	1603
885-829-20 MS	B-6AB-W1	Total/NA	Solid	300.0	1603
885-829-20 MSD	B-6AB-W1	Total/NA	Solid	300.0	1603

Analysis Batch: 1697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-829-35	B-37AAB-W1	Total/NA	Solid	300.0	1629
885-829-36	B-27AAB-W1	Total/NA	Solid	300.0	1629
885-829-37	B-27AAB-W2	Total/NA	Solid	300.0	1629
885-829-38	B-36AAB-W1	Total/NA	Solid	300.0	1629
885-829-39	B-33AAB-W1	Total/NA	Solid	300.0	1629
MB 885-1629/1-A	Method Blank	Total/NA	Solid	300.0	1629
LCS 885-1629/2-A	Lab Control Sample	Total/NA	Solid	300.0	1629

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-5AB
Date Collected: 03/07/24 09:40
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8015D		1	1654	JP	EET ALB	03/12/24 22:53
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8021B		1	1655	JP	EET ALB	03/12/24 22:53
Total/NA	Prep	SHAKE			1534	JU	EET ALB	03/11/24 14:10
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 18:54
Total/NA	Prep	300_Prep			1587	KB	EET ALB	03/12/24 13:11
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/12/24 16:25

Client Sample ID: B-6AB
Date Collected: 03/07/24 09:42
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8015D		1	1654	JP	EET ALB	03/12/24 23:17
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8021B		1	1655	JP	EET ALB	03/12/24 23:17
Total/NA	Prep	SHAKE			1534	JU	EET ALB	03/11/24 14:10
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 19:06
Total/NA	Prep	300_Prep			1587	KB	EET ALB	03/12/24 13:11
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/12/24 16:40

Client Sample ID: B-22AB
Date Collected: 03/07/24 09:44
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8015D		1	1654	JP	EET ALB	03/13/24 00:04
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8021B		1	1655	JP	EET ALB	03/13/24 00:04
Total/NA	Prep	SHAKE			1534	JU	EET ALB	03/11/24 14:10
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 19:30
Total/NA	Prep	300_Prep			1587	KB	EET ALB	03/12/24 13:11
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/12/24 16:55

Client Sample ID: B-2A
Date Collected: 03/07/24 10:12
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8015D		1	1654	JP	EET ALB	03/13/24 00:28

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-2A
Date Collected: 03/07/24 10:12
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8021B		1	1655	JP	EET ALB	03/13/24 00:28
Total/NA	Prep	SHAKE			1534	JU	EET ALB	03/11/24 14:10
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 19:43
Total/NA	Prep	300_Prep			1587	KB	EET ALB	03/12/24 13:11
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/12/24 17:10

Client Sample ID: B-2AAB
Date Collected: 03/07/24 10:16
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8015D		1	1654	JP	EET ALB	03/13/24 00:51
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8021B		1	1655	JP	EET ALB	03/13/24 00:51
Total/NA	Prep	SHAKE			1534	JU	EET ALB	03/11/24 14:10
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 19:54
Total/NA	Prep	300_Prep			1587	KB	EET ALB	03/12/24 13:11
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/12/24 18:26

Client Sample ID: B-3AAB
Date Collected: 03/07/24 10:20
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8015D		1	1654	JP	EET ALB	03/13/24 01:15
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8021B		1	1655	JP	EET ALB	03/13/24 01:15
Total/NA	Prep	SHAKE			1534	JU	EET ALB	03/11/24 14:10
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 20:07
Total/NA	Prep	300_Prep			1587	KB	EET ALB	03/12/24 13:11
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/12/24 18:41

Client Sample ID: B-9AAB
Date Collected: 03/07/24 10:24
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8015D		1	1654	JP	EET ALB	03/13/24 01:39
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8021B		1	1655	JP	EET ALB	03/13/24 01:39

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-9AAB
Date Collected: 03/07/24 10:24
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			1534	JU	EET ALB	03/11/24 14:10
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 20:19
Total/NA	Prep	300_Prep			1587	KB	EET ALB	03/12/24 13:11
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/12/24 18:56

Client Sample ID: B-11AB
Date Collected: 03/07/24 10:28
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8015D		1	1654	JP	EET ALB	03/13/24 02:02
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8021B		1	1655	JP	EET ALB	03/13/24 02:02
Total/NA	Prep	SHAKE			1534	JU	EET ALB	03/11/24 14:10
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 20:31
Total/NA	Prep	300_Prep			1587	KB	EET ALB	03/12/24 13:11
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/12/24 19:11

Client Sample ID: B-13AB
Date Collected: 03/07/24 10:30
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:47
Total/NA	Analysis	8015D		1	1654	JP	EET ALB	03/13/24 02:26
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:47
Total/NA	Analysis	8021B		1	1655	JP	EET ALB	03/13/24 02:26
Total/NA	Prep	SHAKE			1534	JU	EET ALB	03/11/24 14:10
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 20:43
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 17:30

Client Sample ID: B-27AAB
Date Collected: 03/07/24 11:20
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:47
Total/NA	Analysis	8015D		1	1654	JP	EET ALB	03/13/24 02:49
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:47
Total/NA	Analysis	8021B		1	1655	JP	EET ALB	03/13/24 02:49
Total/NA	Prep	SHAKE			1534	JU	EET ALB	03/11/24 14:10
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 20:55

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-27AAB
Date Collected: 03/07/24 11:20
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 17:42

Client Sample ID: B-31AB
Date Collected: 03/07/24 11:22
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:47
Total/NA	Analysis	8015D		1	1654	JP	EET ALB	03/13/24 03:13
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:47
Total/NA	Analysis	8021B		1	1655	JP	EET ALB	03/13/24 03:13
Total/NA	Prep	SHAKE			1534	JU	EET ALB	03/11/24 14:10
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 21:06
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 17:55

Client Sample ID: B-33AAB
Date Collected: 03/07/24 11:24
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:47
Total/NA	Analysis	8015D		1	1654	JP	EET ALB	03/13/24 03:37
Total/NA	Prep	5030C			1514	IMR	EET ALB	03/11/24 10:47
Total/NA	Analysis	8021B		1	1655	JP	EET ALB	03/13/24 03:37
Total/NA	Prep	SHAKE			1534	JU	EET ALB	03/11/24 14:10
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 21:18
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 18:07

Client Sample ID: B-35AAB
Date Collected: 03/07/24 11:26
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/14/24 18:51
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/14/24 18:51
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 15:50
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 18:19

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-36AAB
Date Collected: 03/07/24 11:40
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/14/24 20:01
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/14/24 20:01
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 16:03
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 18:32

Client Sample ID: B-37AAB
Date Collected: 03/07/24 11:42
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/14/24 21:12
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/14/24 21:12
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 16:15
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 18:44

Client Sample ID: B-39AAB
Date Collected: 03/07/24 11:44
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/14/24 21:35
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/14/24 21:35
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 16:27
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 18:56

Client Sample ID: B-40AAB
Date Collected: 03/07/24 11:50
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/14/24 21:59

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-40AAB
Date Collected: 03/07/24 11:50
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/14/24 21:59
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 16:39
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 19:58

Client Sample ID: B-5AB-W1
Date Collected: 03/07/24 13:30
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/14/24 22:46
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/14/24 22:46
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 16:51
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 20:11

Client Sample ID: B-5AB-W2
Date Collected: 03/07/24 13:32
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/14/24 23:09
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/14/24 23:09
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 17:04
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 20:23

Client Sample ID: B-6AB-W1
Date Collected: 03/07/24 13:40
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/14/24 23:33
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/14/24 23:33

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-6AB-W1

Lab Sample ID: 885-829-20
Matrix: Solid
Date Collected: 03/07/24 13:40
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 17:16
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 20:35

Client Sample ID: B-22AB-W1

Lab Sample ID: 885-829-21
Matrix: Solid
Date Collected: 03/07/24 13:44
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/14/24 23:56
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/14/24 23:56
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 17:28
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 21:12

Client Sample ID: B-22AB-W2

Lab Sample ID: 885-829-22
Matrix: Solid
Date Collected: 03/07/24 13:46
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/15/24 00:20
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/15/24 00:20
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 17:40
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 21:25

Client Sample ID: R-2A-W1

Lab Sample ID: 885-829-23
Matrix: Solid
Date Collected: 03/07/24 13:52
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/15/24 00:43
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/15/24 00:43
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 18:05

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: R-2A-W1
Date Collected: 03/07/24 13:52
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 21:37

Client Sample ID: R-2A-W2
Date Collected: 03/07/24 13:54
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/15/24 01:07
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/15/24 01:07
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 18:17
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 21:49

Client Sample ID: B-2AAB-W1
Date Collected: 03/07/24 14:02
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/15/24 01:30
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/15/24 01:30
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 18:29
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 22:26

Client Sample ID: B-3AAB-W1
Date Collected: 03/07/24 14:06
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/15/24 01:54
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/15/24 01:54
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 18:41
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 22:39

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-9AAB-W1

Lab Sample ID: 885-829-27
Matrix: Solid
Date Collected: 03/07/24 14:10
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/15/24 02:41
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/15/24 02:41
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 18:54
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 22:51

Client Sample ID: B-11AB-W1

Lab Sample ID: 885-829-28
Matrix: Solid
Date Collected: 03/07/24 14:12
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/15/24 03:28
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/15/24 03:28
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 19:06
Total/NA	Prep	300_Prep			1603	KB	EET ALB	03/12/24 15:22
Total/NA	Analysis	300.0		20	1651	KB	EET ALB	03/12/24 23:03

Client Sample ID: B-11AB-W2

Lab Sample ID: 885-829-29
Matrix: Solid
Date Collected: 03/07/24 14:16
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/15/24 03:51
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/15/24 03:51
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 19:18
Total/NA	Prep	300_Prep			1610	KB	EET ALB	03/12/24 16:30
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/12/24 22:58

Client Sample ID: B-13AB-W1

Lab Sample ID: 885-829-30
Matrix: Solid
Date Collected: 03/07/24 14:30
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/15/24 04:15

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-13AB-W1

Lab Sample ID: 885-829-30
Matrix: Solid
Date Collected: 03/07/24 14:30
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/15/24 04:15
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 19:30
Total/NA	Prep	300_Prep			1610	KB	EET ALB	03/12/24 16:30
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/12/24 23:14

Client Sample ID: B-13AB-W2

Lab Sample ID: 885-829-31
Matrix: Solid
Date Collected: 03/07/24 14:32
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/15/24 04:38
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/15/24 04:38
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 19:43
Total/NA	Prep	300_Prep			1610	KB	EET ALB	03/12/24 16:30
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/12/24 23:59

Client Sample ID: B-31AB-W1

Lab Sample ID: 885-829-32
Matrix: Solid
Date Collected: 03/07/24 14:34
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8015D		1	1781	JP	EET ALB	03/15/24 05:02
Total/NA	Prep	5030C			1538	IMR	EET ALB	03/11/24 14:29
Total/NA	Analysis	8021B		1	1782	JP	EET ALB	03/15/24 05:02
Total/NA	Prep	SHAKE			1575	DH	EET ALB	03/12/24 10:32
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/12/24 19:55
Total/NA	Prep	300_Prep			1610	KB	EET ALB	03/12/24 16:30
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/13/24 00:14

Client Sample ID: B-39AAB-W1

Lab Sample ID: 885-829-33
Matrix: Solid
Date Collected: 03/07/24 14:36
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1570	IMR	EET ALB	03/12/24 09:51
Total/NA	Analysis	8015D		1	1717	IMR	EET ALB	03/14/24 00:29
Total/NA	Prep	5030C			1570	IMR	EET ALB	03/12/24 09:51
Total/NA	Analysis	8021B		1	1775	IMR	EET ALB	03/14/24 00:29

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-39AAB-W1
Date Collected: 03/07/24 14:36
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			1591	JU	EET ALB	03/12/24 14:00
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/13/24 01:09
Total/NA	Prep	300_Prep			1610	KB	EET ALB	03/12/24 16:30
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/13/24 00:29

Client Sample ID: B-40AAB-W1
Date Collected: 03/07/24 14:40
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1570	IMR	EET ALB	03/12/24 09:51
Total/NA	Analysis	8015D		1	1717	IMR	EET ALB	03/14/24 00:51
Total/NA	Prep	5030C			1570	IMR	EET ALB	03/12/24 09:51
Total/NA	Analysis	8021B		1	1775	IMR	EET ALB	03/14/24 00:51
Total/NA	Prep	SHAKE			1591	JU	EET ALB	03/12/24 14:00
Total/NA	Analysis	8015D		1	1646	JU	EET ALB	03/13/24 01:21
Total/NA	Prep	300_Prep			1610	KB	EET ALB	03/12/24 16:30
Total/NA	Analysis	300.0		20	1637	KB	EET ALB	03/13/24 01:15

Client Sample ID: B-37AAB-W1
Date Collected: 03/07/24 14:42
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1598	JP	EET ALB	03/12/24 15:00
Total/NA	Analysis	8015D		1	1719	JP	EET ALB	03/14/24 02:40
Total/NA	Prep	5030C			1598	JP	EET ALB	03/12/24 15:00
Total/NA	Analysis	8021B		1	1720	JP	EET ALB	03/14/24 02:40
Total/NA	Prep	SHAKE			1624	JU	EET ALB	03/13/24 08:49
Total/NA	Analysis	8015D		1	1713	PD	EET ALB	03/14/24 14:59
Total/NA	Prep	300_Prep			1629	KB	EET ALB	03/13/24 10:18
Total/NA	Analysis	300.0		20	1697	KB	EET ALB	03/13/24 12:08

Client Sample ID: B-27AAB-W1
Date Collected: 03/07/24 14:44
Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1598	JP	EET ALB	03/12/24 15:00
Total/NA	Analysis	8015D		1	1719	JP	EET ALB	03/14/24 03:03
Total/NA	Prep	5030C			1598	JP	EET ALB	03/12/24 15:00
Total/NA	Analysis	8021B		1	1720	JP	EET ALB	03/14/24 03:03
Total/NA	Prep	SHAKE			1624	JU	EET ALB	03/13/24 08:49
Total/NA	Analysis	8015D		1	1713	PD	EET ALB	03/14/24 15:10

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-27AAB-W1

Lab Sample ID: 885-829-36
Matrix: Solid
Date Collected: 03/07/24 14:44
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			1629	KB	EET ALB	03/13/24 10:18
Total/NA	Analysis	300.0		20	1697	KB	EET ALB	03/13/24 12:20

Client Sample ID: B-27AAB-W2

Lab Sample ID: 885-829-37
Matrix: Solid
Date Collected: 03/07/24 14:50
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1598	JP	EET ALB	03/12/24 15:00
Total/NA	Analysis	8015D		1	1719	JP	EET ALB	03/14/24 03:26
Total/NA	Prep	5030C			1598	JP	EET ALB	03/12/24 15:00
Total/NA	Analysis	8021B		1	1720	JP	EET ALB	03/14/24 03:26
Total/NA	Prep	SHAKE			1624	JU	EET ALB	03/13/24 08:49
Total/NA	Analysis	8015D		1	1713	PD	EET ALB	03/14/24 15:21
Total/NA	Prep	300_Prep			1629	KB	EET ALB	03/13/24 10:18
Total/NA	Analysis	300.0		20	1697	KB	EET ALB	03/13/24 12:32

Client Sample ID: B-36AAB-W1

Lab Sample ID: 885-829-38
Matrix: Solid
Date Collected: 03/07/24 14:52
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1598	JP	EET ALB	03/12/24 15:00
Total/NA	Analysis	8015D		1	1719	JP	EET ALB	03/14/24 03:50
Total/NA	Prep	5030C			1598	JP	EET ALB	03/12/24 15:00
Total/NA	Analysis	8021B		1	1720	JP	EET ALB	03/14/24 03:50
Total/NA	Prep	SHAKE			1624	JU	EET ALB	03/13/24 08:49
Total/NA	Analysis	8015D		1	1713	PD	EET ALB	03/14/24 15:32
Total/NA	Prep	300_Prep			1629	KB	EET ALB	03/13/24 10:18
Total/NA	Analysis	300.0		20	1697	KB	EET ALB	03/13/24 12:45

Client Sample ID: B-33AAB-W1

Lab Sample ID: 885-829-39
Matrix: Solid
Date Collected: 03/07/24 14:54
Date Received: 03/09/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1598	JP	EET ALB	03/12/24 15:00
Total/NA	Analysis	8015D		1	1719	JP	EET ALB	03/14/24 04:13
Total/NA	Prep	5030C			1598	JP	EET ALB	03/12/24 15:00
Total/NA	Analysis	8021B		1	1720	JP	EET ALB	03/14/24 04:13
Total/NA	Prep	SHAKE			1624	JU	EET ALB	03/13/24 08:49
Total/NA	Analysis	8015D		1	1713	PD	EET ALB	03/14/24 15:43
Total/NA	Prep	300_Prep			1629	KB	EET ALB	03/13/24 10:18
Total/NA	Analysis	300.0		20	1697	KB	EET ALB	03/13/24 12:57

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc Job ID: 885-829-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Method Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET ALB
8021B	Volatile Organic Compounds (GC)	SW846	EET ALB
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET ALB
300.0	Anions, Ion Chromatography	EPA	EET ALB
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET ALB
5030C	Purge and Trap	SW846	EET ALB
SHAKE	Preparation, Shake Jar	TestAmerica SOP	EET ALB

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TestAmerica SOP = TestAmerica, Inc., Standard Operating Procedure

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 5 DAY TAT

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☒ Yes ☐ No 4pgj
# of Coolers: 1
Cooler Temp(including CF): 0.9+0.1=1.0 °C

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
3/7/24	0940	Soil	B-5AB	1x402 Jar	ICE		X	X	X
	0942		B-6AB						
	0944		B-22AB						
	1012		B-2A						
	1016		B-2AAB						
	1026		B-3AAB						
	1024		B-9AAB						
	1028		B-11AB						
	1036		B-13AB						
	1126		B-27AAB						
	1122		B-31AB						
	1121		B-33AAB						

885-829 COC

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3/8/24	825				3/8/24	825
3/8/24	1900			Courier	3/9/24	8:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No 40g
# of Coolers: 1
Cooler Temp(including CF): 0.9 +0.1 = 1.0°c

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
3/7/24	1126	soil	B-35AAB	1x4oz Jar	ICE		X	X	X
	1140		B-36AAB						
	1142		B-37AAB						
	1144		B-39AAB						
	1150		B-40AAB						
	1330		B-5AB-W1						
	1332		B-5AB-W2						
	1340		B-6AB-W1						
	1344		B-22AB-W1						
	1346		B-22AB-W2						
	1352		R-2A-W1						
	1354		R-2A-W2						

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3/8/24	825				3/8/24	825
3/8/24	1900			Courier	3/9/24	8:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No 4003

# of Coolers: 1

Cooler Temp(including CF): 0.9 +0.1 = 1.0 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
3/7/24	1402	Soil	B-2AAB-W1	1x40z Jar	ICE		X	X	X
	1406		B-3AAB-W1						
	1410		B-9AAB-W1						
	1412		B-11AB-W1						
	1416		B-11AB-W2						
	1430		B-13AB-W1						
	1432		B-13AB-W2						
	1434		B-31AB-W1						
	1436		B-39AAB-W1						
	1440		B-40AAB-W1						
	1442		B-37AAB-W1						
	1444		B-27AAB-W1						

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/8/24	805				3/8/24	825
3/8/24	1900			courier	3/9/24	8:30

Analysis Request

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

3/28/2024

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Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other_____

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☑ **Rush** 5 DAY TAT

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No 4oqj

# of Coolers: 1

Cooler Temp(including CF): 0.9+0.1= 1.0 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
3/7/24	1450	Soil	B-27 AA B-W2	1x 4oz Jar	ICE		X	X	X
"	1452	"	B-36 AA B-W1	"	"		"	"	"
"	1454	"	B-33 AA B-W1	"	"		"	"	"

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/8/24	825				3/8/24	825
3/8/24	1900			courier	3/9/24	8:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-829-1

Login Number: 829 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 4/26/2024 4:27:31 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-3108-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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4/26/2024 4:27:31 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-3108-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-3108-1
Project/Site: Roy SWD #3

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc Job ID: 885-3108-1
Project: Roy SWD #3

Job ID: 885-3108-1 **Eurofins Albuquerque**

Job Narrative
885-3108-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/19/2024 7:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-3793 recovered outside acceptance criteria, low biased, for Di-n-octyl phthalate (Surr). Samples that have Di-n-octyl phthalate (surrogate) recovery in are still being reported .The following samples are associated PWA-9 (885-3108-9), PWA-10 (885-3108-10), PBA-1 (885-3108-11), PBA-2 (885-3108-12), PBA-3 (885-3108-13), PBA-4 (885-3108-14), PBA-5 (885-3108-15), PBA-6 (885-3108-16), PBA-7 (885-3108-17), PBA-8 (885-3108-18), PBA-9 (885-3108-19), PBA-10 (885-3108-20), PBA-11 (885-3108-21), PBA-12 (885-3108-22), PBA-13 (885-3108-23), PBA-14 (885-3108-24), PBA-15 (885-3108-25), P-2B-W1 (885-3108-26), P-2B-W2 (885-3108-27), P-2B-W3 (885-3108-28), (CCV 885-3793/1), (CCV 885-3793/2), (CCV 885-3793/27), (LCS 885-3678/2-A), (MB 885-3678/1-A), (885-3108-A-28-C MS) and (885-3108-A-28-D MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-1

Date Collected: 04/17/24 09:40
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-1

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 10:55	04/22/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 244*	*04/19/24 10:55*	*04/22/24 15:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 10:55	04/22/24 15:11	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 10:55	04/22/24 15:11	1
Toluene	ND		0.049		mg/Kg		04/19/24 10:55	04/22/24 15:11	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 10:55	04/22/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*39 - 146*	*04/19/24 10:55*	*04/22/24 15:11*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		04/19/24 13:29	04/22/24 14:02	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		04/19/24 13:29	04/22/24 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*04/19/24 13:29*	*04/22/24 14:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		59		mg/Kg		04/22/24 14:40	04/23/24 17:06	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-2

Date Collected: 04/17/24 09:44
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-2

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 10:55	04/22/24 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 244*	*04/19/24 10:55*	*04/22/24 15:35*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/22/24 15:35	1
Ethylbenzene	ND		0.050		mg/Kg		04/19/24 10:55	04/22/24 15:35	1
Toluene	ND		0.050		mg/Kg		04/19/24 10:55	04/22/24 15:35	1
Xylenes, Total	ND		0.10		mg/Kg		04/19/24 10:55	04/22/24 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*39 - 146*	*04/19/24 10:55*	*04/22/24 15:35*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		04/19/24 13:29	04/22/24 14:14	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/19/24 13:29	04/22/24 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*04/19/24 13:29*	*04/22/24 14:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**		60		mg/Kg		04/22/24 14:40	04/23/24 17:18	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-3
Date Collected: 04/17/24 09:46
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-3
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 10:55	04/22/24 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*15 - 244*	*04/19/24 10:55*	*04/22/24 15:59*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/22/24 15:59	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 10:55	04/22/24 15:59	1
Toluene	ND		0.049		mg/Kg		04/19/24 10:55	04/22/24 15:59	1
Xylenes, Total	ND		0.098		mg/Kg		04/19/24 10:55	04/22/24 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*04/19/24 10:55*	*04/22/24 15:59*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		04/19/24 13:29	04/22/24 16:54	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		04/19/24 13:29	04/22/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*04/19/24 13:29*	*04/22/24 16:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		59		mg/Kg		04/22/24 14:40	04/23/24 17:30	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-4
Date Collected: 04/17/24 09:50
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-4
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 10:55	04/22/24 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*15 - 244*	*04/19/24 10:55*	*04/22/24 16:23*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/22/24 16:23	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 10:55	04/22/24 16:23	1
Toluene	ND		0.049		mg/Kg		04/19/24 10:55	04/22/24 16:23	1
Xylenes, Total	ND		0.099		mg/Kg		04/19/24 10:55	04/22/24 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 10:55*	*04/22/24 16:23*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		04/19/24 13:29	04/22/24 17:07	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/19/24 13:29	04/22/24 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*68*		*62 - 134*	*04/19/24 13:29*	*04/22/24 17:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		60		mg/Kg		04/22/24 14:40	04/23/24 17:43	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-5

Date Collected: 04/17/24 09:52
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-5

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 10:55	04/22/24 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*15 - 244*	*04/19/24 10:55*	*04/22/24 17:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/23/24 16:10	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 10:55	04/23/24 16:10	1
Toluene	ND		0.049		mg/Kg		04/19/24 10:55	04/23/24 16:10	1
Xylenes, Total	ND		0.099		mg/Kg		04/19/24 10:55	04/23/24 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*04/19/24 10:55*	*04/23/24 16:10*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		04/19/24 14:28	04/22/24 17:19	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		04/19/24 14:28	04/22/24 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*71*		*62 - 134*	*04/19/24 14:28*	*04/22/24 17:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		60		mg/Kg		04/22/24 14:40	04/23/24 18:20	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-6

Date Collected: 04/17/24 09:56
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-6
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 10:55	04/22/24 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*15 - 244*	*04/19/24 10:55*	*04/22/24 17:37*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/23/24 16:32	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 10:55	04/23/24 16:32	1
Toluene	ND		0.049		mg/Kg		04/19/24 10:55	04/23/24 16:32	1
Xylenes, Total	ND		0.098		mg/Kg		04/19/24 10:55	04/23/24 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*04/19/24 10:55*	*04/23/24 16:32*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		04/19/24 14:28	04/22/24 17:32	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/19/24 14:28	04/22/24 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*04/19/24 14:28*	*04/22/24 17:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		04/22/24 14:40	04/23/24 18:32	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-7

Date Collected: 04/17/24 10:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-7

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 10:55	04/22/24 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*15 - 244*	*04/19/24 10:55*	*04/22/24 18:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/23/24 16:54	1
Ethylbenzene	ND		0.050		mg/Kg		04/19/24 10:55	04/23/24 16:54	1
Toluene	ND		0.050		mg/Kg		04/19/24 10:55	04/23/24 16:54	1
Xylenes, Total	ND		0.099		mg/Kg		04/19/24 10:55	04/23/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 10:55*	*04/23/24 16:54*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		04/19/24 14:28	04/22/24 17:46	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/19/24 14:28	04/22/24 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*76*		*62 - 134*	*04/19/24 14:28*	*04/22/24 17:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		60		mg/Kg		04/22/24 16:51	04/23/24 19:34	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-8

Date Collected: 04/17/24 10:02
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-8
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 10:55	04/22/24 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 244*	*04/19/24 10:55*	*04/22/24 18:24*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/23/24 17:16	1
Ethylbenzene	ND		0.050		mg/Kg		04/19/24 10:55	04/23/24 17:16	1
Toluene	ND		0.050		mg/Kg		04/19/24 10:55	04/23/24 17:16	1
Xylenes, Total	ND		0.099		mg/Kg		04/19/24 10:55	04/23/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 10:55*	*04/23/24 17:16*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		04/19/24 14:28	04/22/24 17:59	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/19/24 14:28	04/22/24 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*76*		*62 - 134*	*04/19/24 14:28*	*04/22/24 17:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		04/22/24 16:51	04/23/24 20:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-9
Date Collected: 04/17/24 10:06
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-9
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/23/24 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 244*	*04/19/24 15:29*	*04/23/24 20:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 15:29	04/23/24 20:17	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 20:17	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 20:17	1
Xylenes, Total	ND		0.098		mg/Kg		04/19/24 15:29	04/23/24 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/23/24 20:17*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		04/22/24 13:39	04/23/24 11:43	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/22/24 13:39	04/23/24 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*04/22/24 13:39*	*04/23/24 11:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**320**		60		mg/Kg		04/22/24 16:51	04/23/24 20:48	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-10

Date Collected: 04/17/24 10:10
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-10

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/23/24 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/23/24 21:25*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 15:29	04/23/24 21:25	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 21:25	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 21:25	1
Xylenes, Total	ND		0.098		mg/Kg		04/19/24 15:29	04/23/24 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/23/24 21:25*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		04/22/24 13:39	04/23/24 11:56	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		04/22/24 13:39	04/23/24 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*122*		*62 - 134*	*04/22/24 13:39*	*04/23/24 11:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**410**		60		mg/Kg		04/22/24 16:51	04/23/24 21:00	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-1
Date Collected: 04/17/24 12:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-11
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		04/19/24 15:29	04/23/24 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/23/24 22:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/23/24 22:33	1
Ethylbenzene	ND		0.047		mg/Kg		04/19/24 15:29	04/23/24 22:33	1
Toluene	ND		0.047		mg/Kg		04/19/24 15:29	04/23/24 22:33	1
Xylenes, Total	ND		0.095		mg/Kg		04/19/24 15:29	04/23/24 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 15:29*	*04/23/24 22:33*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		04/22/24 13:39	04/23/24 12:09	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*04/22/24 13:39*	*04/23/24 12:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		04/22/24 16:51	04/23/24 21:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-2

Date Collected: 04/17/24 12:02
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-12

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/23/24 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 244*	*04/19/24 15:29*	*04/23/24 22:56*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 15:29	04/23/24 22:56	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 22:56	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 22:56	1
Xylenes, Total	ND		0.098		mg/Kg		04/19/24 15:29	04/23/24 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/23/24 22:56*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		04/22/24 13:39	04/23/24 12:21	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/22/24 13:39	04/23/24 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*70*		*62 - 134*	*04/22/24 13:39*	*04/23/24 12:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		04/22/24 16:51	04/23/24 21:25	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-3

Date Collected: 04/17/24 12:04
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-13

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		04/19/24 15:29	04/23/24 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*04/19/24 15:29*	*04/23/24 23:18*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/23/24 23:18	1
Ethylbenzene	ND		0.048		mg/Kg		04/19/24 15:29	04/23/24 23:18	1
Toluene	ND		0.048		mg/Kg		04/19/24 15:29	04/23/24 23:18	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 15:29	04/23/24 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 15:29*	*04/23/24 23:18*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		04/22/24 13:39	04/23/24 12:34	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		04/22/24 13:39	04/23/24 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*04/22/24 13:39*	*04/23/24 12:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60		mg/Kg		04/22/24 16:51	04/23/24 22:02	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-4

Date Collected: 04/17/24 12:08
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-14
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/23/24 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/23/24 23:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 15:29	04/23/24 23:41	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 23:41	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/23/24 23:41	1
Xylenes, Total	ND		0.099		mg/Kg		04/19/24 15:29	04/23/24 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/23/24 23:41*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		04/22/24 13:39	04/23/24 20:16	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*04/22/24 13:39*	*04/23/24 20:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		04/22/24 16:51	04/23/24 22:14	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-5

Date Collected: 04/17/24 12:14
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-15
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/24/24 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 244*	*04/19/24 15:29*	*04/24/24 00:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 00:04	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 00:04	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 00:04	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 15:29	04/24/24 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*39 - 146*	*04/19/24 15:29*	*04/24/24 00:04*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		04/22/24 13:39	04/23/24 20:40	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		04/22/24 13:39	04/23/24 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*04/22/24 13:39*	*04/23/24 20:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		60		mg/Kg		04/22/24 16:51	04/23/24 22:27	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-6

Date Collected: 04/17/24 12:16
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-16

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		04/19/24 15:29	04/24/24 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/24/24 00:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 00:26	1
Ethylbenzene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 00:26	1
Toluene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 00:26	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 15:29	04/24/24 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 15:29*	*04/24/24 00:26*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		04/22/24 13:39	04/23/24 21:05	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*04/22/24 13:39*	*04/23/24 21:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**330**		60		mg/Kg		04/22/24 16:51	04/23/24 22:39	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-7

Date Collected: 04/17/24 12:24
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-17

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		04/19/24 15:29	04/24/24 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*04/19/24 15:29*	*04/24/24 00:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		04/19/24 15:29	04/24/24 00:49	1
Ethylbenzene	ND		0.046		mg/Kg		04/19/24 15:29	04/24/24 00:49	1
Toluene	ND		0.046		mg/Kg		04/19/24 15:29	04/24/24 00:49	1
Xylenes, Total	ND		0.092		mg/Kg		04/19/24 15:29	04/24/24 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*39 - 146*	*04/19/24 15:29*	*04/24/24 00:49*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		04/22/24 13:39	04/23/24 13:25	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		04/22/24 13:39	04/23/24 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*114*		*62 - 134*	*04/22/24 13:39*	*04/23/24 13:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		04/22/24 16:51	04/23/24 22:51	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-8
Date Collected: 04/17/24 12:30
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-18
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		04/19/24 15:29	04/24/24 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 244*	*04/19/24 15:29*	*04/24/24 01:12*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 01:12	1
Ethylbenzene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 01:12	1
Toluene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 01:12	1
Xylenes, Total	ND		0.096		mg/Kg		04/19/24 15:29	04/24/24 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/24/24 01:12*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		04/22/24 13:39	04/23/24 21:29	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		04/22/24 13:39	04/23/24 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*118*		*62 - 134*	*04/22/24 13:39*	*04/23/24 21:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		04/22/24 16:51	04/23/24 23:04	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-9
Date Collected: 04/17/24 12:32
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-19
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		04/19/24 15:29	04/24/24 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*04/19/24 15:29*	*04/24/24 01:57*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 01:57	1
Ethylbenzene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 01:57	1
Toluene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 01:57	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 15:29	04/24/24 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*39 - 146*	*04/19/24 15:29*	*04/24/24 01:57*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		04/22/24 13:39	04/23/24 21:53	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*04/22/24 13:39*	*04/23/24 21:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		60		mg/Kg		04/22/24 16:51	04/23/24 23:16	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-10

Date Collected: 04/17/24 12:38
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-20

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		04/19/24 15:29	04/24/24 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*04/19/24 15:29*	*04/24/24 02:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 02:19	1
Ethylbenzene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 02:19	1
Toluene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 02:19	1
Xylenes, Total	ND		0.096		mg/Kg		04/19/24 15:29	04/24/24 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 15:29*	*04/24/24 02:19*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**10**		10		mg/Kg		04/22/24 13:39	04/23/24 22:18	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*115*		*62 - 134*	*04/22/24 13:39*	*04/23/24 22:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		60		mg/Kg		04/22/24 16:51	04/23/24 23:28	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-11
Date Collected: 04/17/24 12:40
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-21
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		04/19/24 15:29	04/24/24 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 244*	*04/19/24 15:29*	*04/24/24 02:42*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		04/19/24 15:29	04/24/24 02:42	1
Ethylbenzene	ND		0.047		mg/Kg		04/19/24 15:29	04/24/24 02:42	1
Toluene	ND		0.047		mg/Kg		04/19/24 15:29	04/24/24 02:42	1
Xylenes, Total	ND		0.094		mg/Kg		04/19/24 15:29	04/24/24 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 15:29*	*04/24/24 02:42*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		04/22/24 13:39	04/23/24 22:42	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		04/22/24 13:39	04/23/24 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*	*04/22/24 13:39*	*04/23/24 22:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		04/22/24 16:51	04/23/24 23:41	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-12

Date Collected: 04/17/24 12:48
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-22

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/24/24 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*04/19/24 15:29*	*04/24/24 03:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 03:04	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 03:04	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 03:04	1
Xylenes, Total	ND		0.098		mg/Kg		04/19/24 15:29	04/24/24 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*	*04/19/24 15:29*	*04/24/24 03:04*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		04/22/24 13:39	04/23/24 23:07	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*04/22/24 13:39*	*04/23/24 23:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		60		mg/Kg		04/22/24 16:51	04/23/24 23:53	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-13

Date Collected: 04/17/24 12:54
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-23

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/24/24 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/24/24 03:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 03:27	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 03:27	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 03:27	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 15:29	04/24/24 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*39 - 146*	*04/19/24 15:29*	*04/24/24 03:27*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.5		mg/Kg		04/22/24 13:39	04/23/24 23:55	1
Motor Oil Range Organics [C28-C40]	ND		42		mg/Kg		04/22/24 13:39	04/23/24 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*04/22/24 13:39*	*04/23/24 23:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		04/22/24 16:51	04/24/24 00:30	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-14

Date Collected: 04/17/24 13:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-24

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 15:29	04/24/24 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*04/19/24 15:29*	*04/24/24 03:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 15:29	04/24/24 03:49	1
Ethylbenzene	ND		0.050		mg/Kg		04/19/24 15:29	04/24/24 03:49	1
Toluene	ND		0.050		mg/Kg		04/19/24 15:29	04/24/24 03:49	1
Xylenes, Total	ND		0.10		mg/Kg		04/19/24 15:29	04/24/24 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/24/24 03:49*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		04/22/24 13:39	04/24/24 00:19	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/22/24 13:39	04/24/24 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*75*		*62 - 134*	*04/22/24 13:39*	*04/24/24 00:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		04/22/24 16:51	04/24/24 00:43	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-15

Date Collected: 04/17/24 13:02
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-25

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		04/19/24 15:29	04/24/24 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 244*	*04/19/24 15:29*	*04/24/24 04:12*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		04/19/24 15:29	04/24/24 04:12	1
Ethylbenzene	ND		0.046		mg/Kg		04/19/24 15:29	04/24/24 04:12	1
Toluene	ND		0.046		mg/Kg		04/19/24 15:29	04/24/24 04:12	1
Xylenes, Total	ND		0.093		mg/Kg		04/19/24 15:29	04/24/24 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*04/19/24 15:29*	*04/24/24 04:12*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		04/22/24 13:39	04/24/24 00:44	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		04/22/24 13:39	04/24/24 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*67*		*62 - 134*	*04/22/24 13:39*	*04/24/24 00:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		60		mg/Kg		04/22/24 16:51	04/24/24 00:55	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: P-2B-W1

Date Collected: 04/17/24 13:10
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-26

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/19/24 15:29	04/24/24 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*15 - 244*	*04/19/24 15:29*	*04/24/24 04:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 04:34	1
Ethylbenzene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 04:34	1
Toluene	ND		0.049		mg/Kg		04/19/24 15:29	04/24/24 04:34	1
Xylenes, Total	ND		0.097		mg/Kg		04/19/24 15:29	04/24/24 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*39 - 146*	*04/19/24 15:29*	*04/24/24 04:34*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		04/22/24 13:39	04/24/24 01:08	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		04/22/24 13:39	04/24/24 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*69*		*62 - 134*	*04/22/24 13:39*	*04/24/24 01:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**360**		60		mg/Kg		04/22/24 16:51	04/24/24 01:07	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: P-2B-W2

Date Collected: 04/17/24 13:12
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-27

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		04/19/24 15:29	04/24/24 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/24/24 04:56*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/19/24 15:29	04/24/24 04:56	1
Ethylbenzene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 04:56	1
Toluene	ND		0.048		mg/Kg		04/19/24 15:29	04/24/24 04:56	1
Xylenes, Total	ND		0.096		mg/Kg		04/19/24 15:29	04/24/24 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*04/19/24 15:29*	*04/24/24 04:56*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		04/22/24 13:39	04/24/24 01:33	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		04/22/24 13:39	04/24/24 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*69*		*62 - 134*	*04/22/24 13:39*	*04/24/24 01:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		04/23/24 16:44	04/24/24 09:10	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: P-2B-W3

Date Collected: 04/17/24 13:14
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-28

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 15:29	04/24/24 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*04/19/24 15:29*	*04/24/24 05:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 15:29	04/24/24 05:19	1
Ethylbenzene	ND		0.050		mg/Kg		04/19/24 15:29	04/24/24 05:19	1
Toluene	ND		0.050		mg/Kg		04/19/24 15:29	04/24/24 05:19	1
Xylenes, Total	ND		0.099		mg/Kg		04/19/24 15:29	04/24/24 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/19/24 15:29*	*04/24/24 05:19*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		04/22/24 13:39	04/24/24 01:57	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		04/22/24 13:39	04/24/24 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*04/22/24 13:39*	*04/24/24 01:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**360**		60		mg/Kg		04/23/24 16:44	04/24/24 09:48	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: R-2A-W3

Date Collected: 04/17/24 13:16
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-29

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		04/23/24 13:42	04/24/24 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 244*	*04/23/24 13:42*	*04/24/24 16:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/23/24 13:42	04/24/24 16:16	1
Ethylbenzene	ND		0.049		mg/Kg		04/23/24 13:42	04/24/24 16:16	1
Toluene	ND		0.049		mg/Kg		04/23/24 13:42	04/24/24 16:16	1
Xylenes, Total	ND		0.099		mg/Kg		04/23/24 13:42	04/24/24 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*39 - 146*	*04/23/24 13:42*	*04/24/24 16:16*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		04/23/24 15:26	04/24/24 19:04	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		04/23/24 15:26	04/24/24 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*04/23/24 15:26*	*04/24/24 19:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**350**		60		mg/Kg		04/24/24 14:12	04/24/24 16:51	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-3584/1-A
Matrix: Solid
Analysis Batch: 3729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3584

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 10:55	04/22/24 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*04/19/24 10:55*	*04/22/24 12:26*	*1*

Lab Sample ID: LCS 885-3584/2-A
Matrix: Solid
Analysis Batch: 3729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3584

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.7		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*211*		*15 - 244*

Lab Sample ID: MB 885-3603/1-A
Matrix: Solid
Analysis Batch: 3801

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3603

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/19/24 15:29	04/23/24 19:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/19/24 15:29*	*04/23/24 19:55*	*1*

Lab Sample ID: LCS 885-3603/2-A
Matrix: Solid
Analysis Batch: 3801

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3603

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.1		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*230*		*15 - 244*

Lab Sample ID: 885-3108-9 MS
Matrix: Solid
Analysis Batch: 3801

Client Sample ID: PWA-9
Prep Type: Total/NA
Prep Batch: 3603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.4	23.7		mg/Kg		97	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-3108-9 MS
Matrix: Solid
Analysis Batch: 3801

Client Sample ID: PWA-9
Prep Type: Total/NA
Prep Batch: 3603

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	230		15 - 244

Lab Sample ID: 885-3108-9 MSD
Matrix: Solid
Analysis Batch: 3801

Client Sample ID: PWA-9
Prep Type: Total/NA
Prep Batch: 3603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.5	24.8		mg/Kg		101	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	233		15 - 244

Lab Sample ID: MB 885-3757/1-A
Matrix: Solid
Analysis Batch: 3868

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3757

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		04/23/24 13:42	04/24/24 14:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 244	04/23/24 13:42	04/24/24 14:20	1

Lab Sample ID: LCS 885-3757/2-A
Matrix: Solid
Analysis Batch: 3868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3757

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.9		mg/Kg		96	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	199		15 - 244

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-3584/1-A
Matrix: Solid
Analysis Batch: 3730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3584

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/19/24 10:55	04/22/24 12:26	1
Ethylbenzene	ND		0.050		mg/Kg		04/19/24 10:55	04/22/24 12:26	1
Toluene	ND		0.050		mg/Kg		04/19/24 10:55	04/22/24 12:26	1
Xylenes, Total	ND		0.10		mg/Kg		04/19/24 10:55	04/22/24 12:26	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-3584/1-A
Matrix: Solid
Analysis Batch: 3730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3584

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		39 - 146	04/19/24 10:55	04/22/24 12:26	1

Lab Sample ID: LCS 885-3584/3-A
Matrix: Solid
Analysis Batch: 3730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.788		mg/Kg		79	70 - 130
Ethylbenzene	1.00	0.808		mg/Kg		81	70 - 130
Toluene	1.00	0.803		mg/Kg		80	70 - 130
m,p-Xylene	2.00	1.65		mg/Kg		82	70 - 130
o-Xylene	1.00	0.797		mg/Kg		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		39 - 146

Lab Sample ID: MB 885-3603/1-A
Matrix: Solid
Analysis Batch: 3804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3603

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/19/24 15:29	04/23/24 19:55	1
Ethylbenzene	ND		0.050	mg/Kg		04/19/24 15:29	04/23/24 19:55	1
Toluene	ND		0.050	mg/Kg		04/19/24 15:29	04/23/24 19:55	1
Xylenes, Total	ND		0.10	mg/Kg		04/19/24 15:29	04/23/24 19:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146	04/19/24 15:29	04/23/24 19:55	1

Lab Sample ID: LCS 885-3603/3-A
Matrix: Solid
Analysis Batch: 3804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.942		mg/Kg		94	70 - 130
Ethylbenzene	1.00	0.959		mg/Kg		96	70 - 130
Toluene	1.00	0.940		mg/Kg		94	70 - 130
m,p-Xylene	2.00	1.92		mg/Kg		96	70 - 130
o-Xylene	1.00	0.973		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		39 - 146

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-3108-10 MS
Matrix: Solid
Analysis Batch: 3804

Client Sample ID: PWA-10
Prep Type: Total/NA
Prep Batch: 3603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.985	0.943		mg/Kg		96	70 - 130
Ethylbenzene	ND		0.985	0.980		mg/Kg		100	70 - 130
Toluene	ND		0.985	0.955		mg/Kg		97	70 - 130
m,p-Xylene	ND		1.97	1.97		mg/Kg		100	70 - 130
o-Xylene	ND		0.985	0.991		mg/Kg		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*

Lab Sample ID: 885-3108-10 MSD
Matrix: Solid
Analysis Batch: 3804

Client Sample ID: PWA-10
Prep Type: Total/NA
Prep Batch: 3603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.987	0.918		mg/Kg		93	70 - 130	3	20
Ethylbenzene	ND		0.987	0.955		mg/Kg		97	70 - 130	3	20
Toluene	ND		0.987	0.924		mg/Kg		94	70 - 130	3	20
m,p-Xylene	ND		1.97	1.91		mg/Kg		97	70 - 130	3	20
o-Xylene	ND		0.987	0.960		mg/Kg		97	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*39 - 146*

Lab Sample ID: MB 885-3757/1-A
Matrix: Solid
Analysis Batch: 3869

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3757

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/23/24 13:42	04/24/24 14:20	1
Ethylbenzene	ND		0.050		mg/Kg		04/23/24 13:42	04/24/24 14:20	1
Toluene	ND		0.050		mg/Kg		04/23/24 13:42	04/24/24 14:20	1
Xylenes, Total	ND		0.10		mg/Kg		04/23/24 13:42	04/24/24 14:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*39 - 146*	*04/23/24 13:42*	*04/24/24 14:20*	*1*

Lab Sample ID: LCS 885-3757/3-A
Matrix: Solid
Analysis Batch: 3869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3757

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			1.00	0.962		mg/Kg		96	70 - 130
Ethylbenzene			1.00	0.937		mg/Kg		94	70 - 130
Toluene			1.00	0.920		mg/Kg		92	70 - 130
m,p-Xylene			2.00	1.92		mg/Kg		96	70 - 130
o-Xylene			1.00	0.941		mg/Kg		94	70 - 130

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-3757/3-A
Matrix: Solid
Analysis Batch: 3869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3757

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		39 - 146

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-3596/1-A
Matrix: Solid
Analysis Batch: 3704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3596

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		04/19/24 13:29	04/22/24 11:18	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/19/24 13:29	04/22/24 11:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134	04/19/24 13:29	04/22/24 11:18	1

Lab Sample ID: LCS 885-3596/2-A
Matrix: Solid
Analysis Batch: 3704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3596

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	49.7		mg/Kg		99	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	102		62 - 134

Lab Sample ID: MB 885-3678/1-A
Matrix: Solid
Analysis Batch: 3793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3678

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		04/22/24 13:39	04/23/24 11:18	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/22/24 13:39	04/23/24 11:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	125		62 - 134	04/22/24 13:39	04/23/24 11:18	1

Lab Sample ID: LCS 885-3678/2-A
Matrix: Solid
Analysis Batch: 3793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3678

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	59.3		mg/Kg		119	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	119		62 - 134

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-3108-28 MS
Matrix: Solid
Analysis Batch: 3794

Client Sample ID: P-2B-W3
Prep Type: Total/NA
Prep Batch: 3678

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		47.4	60.4		mg/Kg		127	44 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*

Lab Sample ID: 885-3108-28 MSD
Matrix: Solid
Analysis Batch: 3794

Client Sample ID: P-2B-W3
Prep Type: Total/NA
Prep Batch: 3678

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		48.0	49.4		mg/Kg		103	44 - 136	20	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*69*		*62 - 134*

Lab Sample ID: MB 885-3768/1-A
Matrix: Solid
Analysis Batch: 3832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3768

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		04/23/24 15:26	04/24/24 18:41	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/23/24 15:26	04/24/24 18:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*04/23/24 15:26*	*04/24/24 18:41*	*1*

Lab Sample ID: LCS 885-3768/2-A
Matrix: Solid
Analysis Batch: 3832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3768

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	48.8		mg/Kg		98	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-3708/1-A
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3708

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		04/22/24 16:51	04/23/24 18:44	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-3708/2-A
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3708

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.7		mg/Kg		98	90 - 110		

Lab Sample ID: 885-3108-7 MS
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: PWA-7
Prep Type: Total/NA
Prep Batch: 3708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	270		30.0	295	4	mg/Kg		82	50 - 150		

Lab Sample ID: 885-3108-7 MSD
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: PWA-7
Prep Type: Total/NA
Prep Batch: 3708

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	270		30.0	305	4	mg/Kg		115	50 - 150	3	20

Lab Sample ID: 885-3108-8 MS
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: PWA-8
Prep Type: Total/NA
Prep Batch: 3708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250		30.1	291	4	mg/Kg		142	50 - 150		

Lab Sample ID: 885-3108-8 MSD
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: PWA-8
Prep Type: Total/NA
Prep Batch: 3708

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250		30.1	305	4	mg/Kg		189	50 - 150	5	20

Lab Sample ID: MB 885-3774/1-A
Matrix: Solid
Analysis Batch: 3852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3774

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		04/23/24 16:44	04/24/24 08:44	1

Lab Sample ID: LCS 885-3774/2-A
Matrix: Solid
Analysis Batch: 3852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3774

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	13.9		mg/Kg		93	90 - 110		

Lab Sample ID: 885-3108-27 MS
Matrix: Solid
Analysis Batch: 3852

Client Sample ID: P-2B-W2
Prep Type: Total/NA
Prep Batch: 3774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	300		29.8	349	4	mg/Kg		158	50 - 150		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-3108-27 MSD
Matrix: Solid
Analysis Batch: 3852

Client Sample ID: P-2B-W2
Prep Type: Total/NA
Prep Batch: 3774

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	300		30.1	329	4	mg/Kg		89	50 - 150	6	20

Lab Sample ID: MB 885-3787/4
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/Kg			04/23/24 08:45	1

Lab Sample ID: MRL 885-3787/3
Matrix: Solid
Analysis Batch: 3787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.552		mg/L		110	50 - 150		

Lab Sample ID: MB 885-3838/1-A
Matrix: Solid
Analysis Batch: 3852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3838

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		04/24/24 14:12	04/24/24 16:14	1

Lab Sample ID: LCS 885-3838/2-A
Matrix: Solid
Analysis Batch: 3852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3838

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	13.9		mg/Kg		93	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

GC VOA

Prep Batch: 3584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	5030C	
885-3108-2	PWA-2	Total/NA	Solid	5030C	
885-3108-3	PWA-3	Total/NA	Solid	5030C	
885-3108-4	PWA-4	Total/NA	Solid	5030C	
885-3108-5	PWA-5	Total/NA	Solid	5030C	
885-3108-6	PWA-6	Total/NA	Solid	5030C	
885-3108-7	PWA-7	Total/NA	Solid	5030C	
885-3108-8	PWA-8	Total/NA	Solid	5030C	
MB 885-3584/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3584/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3584/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 3603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-9	PWA-9	Total/NA	Solid	5030C	
885-3108-10	PWA-10	Total/NA	Solid	5030C	
885-3108-11	PBA-1	Total/NA	Solid	5030C	
885-3108-12	PBA-2	Total/NA	Solid	5030C	
885-3108-13	PBA-3	Total/NA	Solid	5030C	
885-3108-14	PBA-4	Total/NA	Solid	5030C	
885-3108-15	PBA-5	Total/NA	Solid	5030C	
885-3108-16	PBA-6	Total/NA	Solid	5030C	
885-3108-17	PBA-7	Total/NA	Solid	5030C	
885-3108-18	PBA-8	Total/NA	Solid	5030C	
885-3108-19	PBA-9	Total/NA	Solid	5030C	
885-3108-20	PBA-10	Total/NA	Solid	5030C	
885-3108-21	PBA-11	Total/NA	Solid	5030C	
885-3108-22	PBA-12	Total/NA	Solid	5030C	
885-3108-23	PBA-13	Total/NA	Solid	5030C	
885-3108-24	PBA-14	Total/NA	Solid	5030C	
885-3108-25	PBA-15	Total/NA	Solid	5030C	
885-3108-26	P-2B-W1	Total/NA	Solid	5030C	
885-3108-27	P-2B-W2	Total/NA	Solid	5030C	
885-3108-28	P-2B-W3	Total/NA	Solid	5030C	
MB 885-3603/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3603/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3603/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-3108-9 MS	PWA-9	Total/NA	Solid	5030C	
885-3108-9 MSD	PWA-9	Total/NA	Solid	5030C	
885-3108-10 MS	PWA-10	Total/NA	Solid	5030C	
885-3108-10 MSD	PWA-10	Total/NA	Solid	5030C	

Analysis Batch: 3729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	8015D	3584
885-3108-2	PWA-2	Total/NA	Solid	8015D	3584
885-3108-3	PWA-3	Total/NA	Solid	8015D	3584
885-3108-4	PWA-4	Total/NA	Solid	8015D	3584
885-3108-5	PWA-5	Total/NA	Solid	8015D	3584
885-3108-6	PWA-6	Total/NA	Solid	8015D	3584
885-3108-7	PWA-7	Total/NA	Solid	8015D	3584

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

GC VOA (Continued)

Analysis Batch: 3729 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-8	PWA-8	Total/NA	Solid	8015D	3584
MB 885-3584/1-A	Method Blank	Total/NA	Solid	8015D	3584
LCS 885-3584/2-A	Lab Control Sample	Total/NA	Solid	8015D	3584

Analysis Batch: 3730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	8021B	3584
885-3108-2	PWA-2	Total/NA	Solid	8021B	3584
885-3108-3	PWA-3	Total/NA	Solid	8021B	3584
885-3108-4	PWA-4	Total/NA	Solid	8021B	3584
MB 885-3584/1-A	Method Blank	Total/NA	Solid	8021B	3584
LCS 885-3584/3-A	Lab Control Sample	Total/NA	Solid	8021B	3584

Prep Batch: 3757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-29	R-2A-W3	Total/NA	Solid	5030C	
MB 885-3757/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3757/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3757/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 3801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-9	PWA-9	Total/NA	Solid	8015D	3603
885-3108-10	PWA-10	Total/NA	Solid	8015D	3603
885-3108-11	PBA-1	Total/NA	Solid	8015D	3603
885-3108-12	PBA-2	Total/NA	Solid	8015D	3603
885-3108-13	PBA-3	Total/NA	Solid	8015D	3603
885-3108-14	PBA-4	Total/NA	Solid	8015D	3603
885-3108-15	PBA-5	Total/NA	Solid	8015D	3603
885-3108-16	PBA-6	Total/NA	Solid	8015D	3603
885-3108-17	PBA-7	Total/NA	Solid	8015D	3603
885-3108-18	PBA-8	Total/NA	Solid	8015D	3603
885-3108-19	PBA-9	Total/NA	Solid	8015D	3603
885-3108-20	PBA-10	Total/NA	Solid	8015D	3603
885-3108-21	PBA-11	Total/NA	Solid	8015D	3603
885-3108-22	PBA-12	Total/NA	Solid	8015D	3603
885-3108-23	PBA-13	Total/NA	Solid	8015D	3603
885-3108-24	PBA-14	Total/NA	Solid	8015D	3603
885-3108-25	PBA-15	Total/NA	Solid	8015D	3603
885-3108-26	P-2B-W1	Total/NA	Solid	8015D	3603
885-3108-27	P-2B-W2	Total/NA	Solid	8015D	3603
885-3108-28	P-2B-W3	Total/NA	Solid	8015D	3603
MB 885-3603/1-A	Method Blank	Total/NA	Solid	8015D	3603
LCS 885-3603/2-A	Lab Control Sample	Total/NA	Solid	8015D	3603
885-3108-9 MS	PWA-9	Total/NA	Solid	8015D	3603
885-3108-9 MSD	PWA-9	Total/NA	Solid	8015D	3603

Analysis Batch: 3803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-5	PWA-5	Total/NA	Solid	8021B	3584
885-3108-6	PWA-6	Total/NA	Solid	8021B	3584

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

GC VOA (Continued)

Analysis Batch: 3803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-7	PWA-7	Total/NA	Solid	8021B	3584
885-3108-8	PWA-8	Total/NA	Solid	8021B	3584

Analysis Batch: 3804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-9	PWA-9	Total/NA	Solid	8021B	3603
885-3108-10	PWA-10	Total/NA	Solid	8021B	3603
885-3108-11	PBA-1	Total/NA	Solid	8021B	3603
885-3108-12	PBA-2	Total/NA	Solid	8021B	3603
885-3108-13	PBA-3	Total/NA	Solid	8021B	3603
885-3108-14	PBA-4	Total/NA	Solid	8021B	3603
885-3108-15	PBA-5	Total/NA	Solid	8021B	3603
885-3108-16	PBA-6	Total/NA	Solid	8021B	3603
885-3108-17	PBA-7	Total/NA	Solid	8021B	3603
885-3108-18	PBA-8	Total/NA	Solid	8021B	3603
885-3108-19	PBA-9	Total/NA	Solid	8021B	3603
885-3108-20	PBA-10	Total/NA	Solid	8021B	3603
885-3108-21	PBA-11	Total/NA	Solid	8021B	3603
885-3108-22	PBA-12	Total/NA	Solid	8021B	3603
885-3108-23	PBA-13	Total/NA	Solid	8021B	3603
885-3108-24	PBA-14	Total/NA	Solid	8021B	3603
885-3108-25	PBA-15	Total/NA	Solid	8021B	3603
885-3108-26	P-2B-W1	Total/NA	Solid	8021B	3603
885-3108-27	P-2B-W2	Total/NA	Solid	8021B	3603
885-3108-28	P-2B-W3	Total/NA	Solid	8021B	3603
MB 885-3603/1-A	Method Blank	Total/NA	Solid	8021B	3603
LCS 885-3603/3-A	Lab Control Sample	Total/NA	Solid	8021B	3603
885-3108-10 MS	PWA-10	Total/NA	Solid	8021B	3603
885-3108-10 MSD	PWA-10	Total/NA	Solid	8021B	3603

Analysis Batch: 3868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-29	R-2A-W3	Total/NA	Solid	8015D	3757
MB 885-3757/1-A	Method Blank	Total/NA	Solid	8015D	3757
LCS 885-3757/2-A	Lab Control Sample	Total/NA	Solid	8015D	3757

Analysis Batch: 3869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-29	R-2A-W3	Total/NA	Solid	8021B	3757
MB 885-3757/1-A	Method Blank	Total/NA	Solid	8021B	3757
LCS 885-3757/3-A	Lab Control Sample	Total/NA	Solid	8021B	3757

GC Semi VOA

Prep Batch: 3596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	SHAKE	
885-3108-2	PWA-2	Total/NA	Solid	SHAKE	
885-3108-3	PWA-3	Total/NA	Solid	SHAKE	
885-3108-4	PWA-4	Total/NA	Solid	SHAKE	
885-3108-5	PWA-5	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

GC Semi VOA (Continued)

Prep Batch: 3596 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-6	PWA-6	Total/NA	Solid	SHAKE	
885-3108-7	PWA-7	Total/NA	Solid	SHAKE	
885-3108-8	PWA-8	Total/NA	Solid	SHAKE	
MB 885-3596/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3596/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 3678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-9	PWA-9	Total/NA	Solid	SHAKE	
885-3108-10	PWA-10	Total/NA	Solid	SHAKE	
885-3108-11	PBA-1	Total/NA	Solid	SHAKE	
885-3108-12	PBA-2	Total/NA	Solid	SHAKE	
885-3108-13	PBA-3	Total/NA	Solid	SHAKE	
885-3108-14	PBA-4	Total/NA	Solid	SHAKE	
885-3108-15	PBA-5	Total/NA	Solid	SHAKE	
885-3108-16	PBA-6	Total/NA	Solid	SHAKE	
885-3108-17	PBA-7	Total/NA	Solid	SHAKE	
885-3108-18	PBA-8	Total/NA	Solid	SHAKE	
885-3108-19	PBA-9	Total/NA	Solid	SHAKE	
885-3108-20	PBA-10	Total/NA	Solid	SHAKE	
885-3108-21	PBA-11	Total/NA	Solid	SHAKE	
885-3108-22	PBA-12	Total/NA	Solid	SHAKE	
885-3108-23	PBA-13	Total/NA	Solid	SHAKE	
885-3108-24	PBA-14	Total/NA	Solid	SHAKE	
885-3108-25	PBA-15	Total/NA	Solid	SHAKE	
885-3108-26	P-2B-W1	Total/NA	Solid	SHAKE	
885-3108-27	P-2B-W2	Total/NA	Solid	SHAKE	
885-3108-28	P-2B-W3	Total/NA	Solid	SHAKE	
MB 885-3678/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3678/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-3108-28 MS	P-2B-W3	Total/NA	Solid	SHAKE	
885-3108-28 MSD	P-2B-W3	Total/NA	Solid	SHAKE	

Analysis Batch: 3704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	8015D	3596
885-3108-2	PWA-2	Total/NA	Solid	8015D	3596
885-3108-3	PWA-3	Total/NA	Solid	8015D	3596
885-3108-4	PWA-4	Total/NA	Solid	8015D	3596
885-3108-5	PWA-5	Total/NA	Solid	8015D	3596
885-3108-6	PWA-6	Total/NA	Solid	8015D	3596
885-3108-7	PWA-7	Total/NA	Solid	8015D	3596
885-3108-8	PWA-8	Total/NA	Solid	8015D	3596
MB 885-3596/1-A	Method Blank	Total/NA	Solid	8015D	3596
LCS 885-3596/2-A	Lab Control Sample	Total/NA	Solid	8015D	3596

Prep Batch: 3768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-29	R-2A-W3	Total/NA	Solid	SHAKE	
MB 885-3768/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3768/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

GC Semi VOA

Analysis Batch: 3793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-9	PWA-9	Total/NA	Solid	8015D	3678
885-3108-10	PWA-10	Total/NA	Solid	8015D	3678
885-3108-11	PBA-1	Total/NA	Solid	8015D	3678
885-3108-12	PBA-2	Total/NA	Solid	8015D	3678
885-3108-13	PBA-3	Total/NA	Solid	8015D	3678
885-3108-17	PBA-7	Total/NA	Solid	8015D	3678
MB 885-3678/1-A	Method Blank	Total/NA	Solid	8015D	3678
LCS 885-3678/2-A	Lab Control Sample	Total/NA	Solid	8015D	3678

Analysis Batch: 3794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-14	PBA-4	Total/NA	Solid	8015D	3678
885-3108-15	PBA-5	Total/NA	Solid	8015D	3678
885-3108-16	PBA-6	Total/NA	Solid	8015D	3678
885-3108-18	PBA-8	Total/NA	Solid	8015D	3678
885-3108-19	PBA-9	Total/NA	Solid	8015D	3678
885-3108-20	PBA-10	Total/NA	Solid	8015D	3678
885-3108-21	PBA-11	Total/NA	Solid	8015D	3678
885-3108-22	PBA-12	Total/NA	Solid	8015D	3678
885-3108-23	PBA-13	Total/NA	Solid	8015D	3678
885-3108-24	PBA-14	Total/NA	Solid	8015D	3678
885-3108-25	PBA-15	Total/NA	Solid	8015D	3678
885-3108-26	P-2B-W1	Total/NA	Solid	8015D	3678
885-3108-27	P-2B-W2	Total/NA	Solid	8015D	3678
885-3108-28	P-2B-W3	Total/NA	Solid	8015D	3678
885-3108-28 MS	P-2B-W3	Total/NA	Solid	8015D	3678
885-3108-28 MSD	P-2B-W3	Total/NA	Solid	8015D	3678

Analysis Batch: 3832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-29	R-2A-W3	Total/NA	Solid	8015D	3768
MB 885-3768/1-A	Method Blank	Total/NA	Solid	8015D	3768
LCS 885-3768/2-A	Lab Control Sample	Total/NA	Solid	8015D	3768

HPLC/IC

Prep Batch: 3682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	300_Prep	
885-3108-2	PWA-2	Total/NA	Solid	300_Prep	
885-3108-3	PWA-3	Total/NA	Solid	300_Prep	
885-3108-4	PWA-4	Total/NA	Solid	300_Prep	
885-3108-5	PWA-5	Total/NA	Solid	300_Prep	
885-3108-6	PWA-6	Total/NA	Solid	300_Prep	

Prep Batch: 3708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-7	PWA-7	Total/NA	Solid	300_Prep	
885-3108-8	PWA-8	Total/NA	Solid	300_Prep	
885-3108-9	PWA-9	Total/NA	Solid	300_Prep	
885-3108-10	PWA-10	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

HPLC/IC (Continued)

Prep Batch: 3708 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-11	PBA-1	Total/NA	Solid	300_Prep	
885-3108-12	PBA-2	Total/NA	Solid	300_Prep	
885-3108-13	PBA-3	Total/NA	Solid	300_Prep	
885-3108-14	PBA-4	Total/NA	Solid	300_Prep	
885-3108-15	PBA-5	Total/NA	Solid	300_Prep	
885-3108-16	PBA-6	Total/NA	Solid	300_Prep	
885-3108-17	PBA-7	Total/NA	Solid	300_Prep	
885-3108-18	PBA-8	Total/NA	Solid	300_Prep	
885-3108-19	PBA-9	Total/NA	Solid	300_Prep	
885-3108-20	PBA-10	Total/NA	Solid	300_Prep	
885-3108-21	PBA-11	Total/NA	Solid	300_Prep	
885-3108-22	PBA-12	Total/NA	Solid	300_Prep	
885-3108-23	PBA-13	Total/NA	Solid	300_Prep	
885-3108-24	PBA-14	Total/NA	Solid	300_Prep	
885-3108-25	PBA-15	Total/NA	Solid	300_Prep	
885-3108-26	P-2B-W1	Total/NA	Solid	300_Prep	
MB 885-3708/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-3708/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-3108-7 MS	PWA-7	Total/NA	Solid	300_Prep	
885-3108-7 MSD	PWA-7	Total/NA	Solid	300_Prep	
885-3108-8 MS	PWA-8	Total/NA	Solid	300_Prep	
885-3108-8 MSD	PWA-8	Total/NA	Solid	300_Prep	

Prep Batch: 3774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-27	P-2B-W2	Total/NA	Solid	300_Prep	
885-3108-28	P-2B-W3	Total/NA	Solid	300_Prep	
MB 885-3774/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-3774/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-3108-27 MS	P-2B-W2	Total/NA	Solid	300_Prep	
885-3108-27 MSD	P-2B-W2	Total/NA	Solid	300_Prep	

Analysis Batch: 3787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-1	PWA-1	Total/NA	Solid	300.0	3682
885-3108-2	PWA-2	Total/NA	Solid	300.0	3682
885-3108-3	PWA-3	Total/NA	Solid	300.0	3682
885-3108-4	PWA-4	Total/NA	Solid	300.0	3682
885-3108-5	PWA-5	Total/NA	Solid	300.0	3682
885-3108-6	PWA-6	Total/NA	Solid	300.0	3682
885-3108-7	PWA-7	Total/NA	Solid	300.0	3708
885-3108-8	PWA-8	Total/NA	Solid	300.0	3708
885-3108-9	PWA-9	Total/NA	Solid	300.0	3708
885-3108-10	PWA-10	Total/NA	Solid	300.0	3708
885-3108-11	PBA-1	Total/NA	Solid	300.0	3708
885-3108-12	PBA-2	Total/NA	Solid	300.0	3708
885-3108-13	PBA-3	Total/NA	Solid	300.0	3708
885-3108-14	PBA-4	Total/NA	Solid	300.0	3708
885-3108-15	PBA-5	Total/NA	Solid	300.0	3708
885-3108-16	PBA-6	Total/NA	Solid	300.0	3708
885-3108-17	PBA-7	Total/NA	Solid	300.0	3708

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

HPLC/IC (Continued)

Analysis Batch: 3787 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-18	PBA-8	Total/NA	Solid	300.0	3708
885-3108-19	PBA-9	Total/NA	Solid	300.0	3708
885-3108-20	PBA-10	Total/NA	Solid	300.0	3708
885-3108-21	PBA-11	Total/NA	Solid	300.0	3708
885-3108-22	PBA-12	Total/NA	Solid	300.0	3708
885-3108-23	PBA-13	Total/NA	Solid	300.0	3708
885-3108-24	PBA-14	Total/NA	Solid	300.0	3708
885-3108-25	PBA-15	Total/NA	Solid	300.0	3708
885-3108-26	P-2B-W1	Total/NA	Solid	300.0	3708
MB 885-3708/1-A	Method Blank	Total/NA	Solid	300.0	3708
MB 885-3787/4	Method Blank	Total/NA	Solid	300.0	
LCS 885-3708/2-A	Lab Control Sample	Total/NA	Solid	300.0	3708
MRL 885-3787/3	Lab Control Sample	Total/NA	Solid	300.0	
885-3108-7 MS	PWA-7	Total/NA	Solid	300.0	3708
885-3108-7 MSD	PWA-7	Total/NA	Solid	300.0	3708
885-3108-8 MS	PWA-8	Total/NA	Solid	300.0	3708
885-3108-8 MSD	PWA-8	Total/NA	Solid	300.0	3708

Prep Batch: 3838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-29	R-2A-W3	Total/NA	Solid	300_Prep	
MB 885-3838/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-3838/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 3852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3108-27	P-2B-W2	Total/NA	Solid	300.0	3774
885-3108-28	P-2B-W3	Total/NA	Solid	300.0	3774
885-3108-29	R-2A-W3	Total/NA	Solid	300.0	3838
MB 885-3774/1-A	Method Blank	Total/NA	Solid	300.0	3774
MB 885-3838/1-A	Method Blank	Total/NA	Solid	300.0	3838
LCS 885-3774/2-A	Lab Control Sample	Total/NA	Solid	300.0	3774
LCS 885-3838/2-A	Lab Control Sample	Total/NA	Solid	300.0	3838
885-3108-27 MS	P-2B-W2	Total/NA	Solid	300.0	3774
885-3108-27 MSD	P-2B-W2	Total/NA	Solid	300.0	3774

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-1
Date Collected: 04/17/24 09:40
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 15:11
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3730	JP	EET ALB	04/22/24 15:11
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 13:29
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 14:02
Total/NA	Prep	300_Prep			3682	SS	EET ALB	04/22/24 14:40
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 17:06

Client Sample ID: PWA-2
Date Collected: 04/17/24 09:44
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 15:35
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3730	JP	EET ALB	04/22/24 15:35
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 13:29
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 14:14
Total/NA	Prep	300_Prep			3682	SS	EET ALB	04/22/24 14:40
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 17:18

Client Sample ID: PWA-3
Date Collected: 04/17/24 09:46
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 15:59
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3730	JP	EET ALB	04/22/24 15:59
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 13:29
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 16:54
Total/NA	Prep	300_Prep			3682	SS	EET ALB	04/22/24 14:40
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 17:30

Client Sample ID: PWA-4
Date Collected: 04/17/24 09:50
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 16:23

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-4
Date Collected: 04/17/24 09:50
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3730	JP	EET ALB	04/22/24 16:23
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 13:29
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 17:07
Total/NA	Prep	300_Prep			3682	SS	EET ALB	04/22/24 14:40
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 17:43

Client Sample ID: PWA-5
Date Collected: 04/17/24 09:52
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 17:13
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3803	RA	EET ALB	04/23/24 16:10
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 14:28
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 17:19
Total/NA	Prep	300_Prep			3682	SS	EET ALB	04/22/24 14:40
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 18:20

Client Sample ID: PWA-6
Date Collected: 04/17/24 09:56
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 17:37
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3803	RA	EET ALB	04/23/24 16:32
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 14:28
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 17:32
Total/NA	Prep	300_Prep			3682	SS	EET ALB	04/22/24 14:40
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 18:32

Client Sample ID: PWA-7
Date Collected: 04/17/24 10:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 18:00
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3803	RA	EET ALB	04/23/24 16:54

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-7
Date Collected: 04/17/24 10:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 14:28
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 17:46
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 19:34

Client Sample ID: PWA-8
Date Collected: 04/17/24 10:02
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 18:24
Total/NA	Prep	5030C			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8021B		1	3803	RA	EET ALB	04/23/24 17:16
Total/NA	Prep	SHAKE			3596	SB	EET ALB	04/19/24 14:28
Total/NA	Analysis	8015D		1	3704	JU	EET ALB	04/22/24 17:59
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 20:11

Client Sample ID: PWA-9
Date Collected: 04/17/24 10:06
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/23/24 20:17
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/23/24 20:17
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3793	JU	EET ALB	04/23/24 11:43
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 20:48

Client Sample ID: PWA-10
Date Collected: 04/17/24 10:10
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/23/24 21:25
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/23/24 21:25
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3793	JU	EET ALB	04/23/24 11:56

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-10
Date Collected: 04/17/24 10:10
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 21:00

Client Sample ID: PBA-1
Date Collected: 04/17/24 12:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/23/24 22:33
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/23/24 22:33
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3793	JU	EET ALB	04/23/24 12:09
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 21:13

Client Sample ID: PBA-2
Date Collected: 04/17/24 12:02
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/23/24 22:56
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/23/24 22:56
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3793	JU	EET ALB	04/23/24 12:21
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 21:25

Client Sample ID: PBA-3
Date Collected: 04/17/24 12:04
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/23/24 23:18
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/23/24 23:18
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3793	JU	EET ALB	04/23/24 12:34
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 22:02

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-4
Date Collected: 04/17/24 12:08
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/23/24 23:41
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/23/24 23:41
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 20:16
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 22:14

Client Sample ID: PBA-5
Date Collected: 04/17/24 12:14
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 00:04
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 00:04
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 20:40
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 22:27

Client Sample ID: PBA-6
Date Collected: 04/17/24 12:16
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 00:26
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 00:26
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 21:05
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 22:39

Client Sample ID: PBA-7
Date Collected: 04/17/24 12:24
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 00:49

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-7
Date Collected: 04/17/24 12:24
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 00:49
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3793	JU	EET ALB	04/23/24 13:25
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 22:51

Client Sample ID: PBA-8
Date Collected: 04/17/24 12:30
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 01:12
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 01:12
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 21:29
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 23:04

Client Sample ID: PBA-9
Date Collected: 04/17/24 12:32
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 01:57
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 01:57
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 21:53
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 23:16

Client Sample ID: PBA-10
Date Collected: 04/17/24 12:38
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 02:19
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 02:19

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-10
Date Collected: 04/17/24 12:38
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 22:18
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 23:28

Client Sample ID: PBA-11
Date Collected: 04/17/24 12:40
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 02:42
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 02:42
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 22:42
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 23:41

Client Sample ID: PBA-12
Date Collected: 04/17/24 12:48
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 03:04
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 03:04
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 23:07
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/23/24 23:53

Client Sample ID: PBA-13
Date Collected: 04/17/24 12:54
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 03:27
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 03:27
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 23:55

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-13
Date Collected: 04/17/24 12:54
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/24/24 00:30

Client Sample ID: PBA-14
Date Collected: 04/17/24 13:00
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 03:49
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 03:49
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/24/24 00:19
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/24/24 00:43

Client Sample ID: PBA-15
Date Collected: 04/17/24 13:02
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 04:12
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 04:12
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/24/24 00:44
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/24/24 00:55

Client Sample ID: P-2B-W1
Date Collected: 04/17/24 13:10
Date Received: 04/19/24 07:30

Lab Sample ID: 885-3108-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 04:34
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 04:34
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/24/24 01:08
Total/NA	Prep	300_Prep			3708	KB	EET ALB	04/22/24 16:51
Total/NA	Analysis	300.0		20	3787	RC	EET ALB	04/24/24 01:07

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: P-2B-W2

Lab Sample ID: 885-3108-27
Matrix: Solid
Date Collected: 04/17/24 13:12
Date Received: 04/19/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 04:56
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 04:56
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/24/24 01:33
Total/NA	Prep	300_Prep			3774	SS	EET ALB	04/23/24 16:44
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 09:10

Client Sample ID: P-2B-W3

Lab Sample ID: 885-3108-28
Matrix: Solid
Date Collected: 04/17/24 13:14
Date Received: 04/19/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8015D		1	3801	RA	EET ALB	04/24/24 05:19
Total/NA	Prep	5030C			3603	JP	EET ALB	04/19/24 15:29
Total/NA	Analysis	8021B		1	3804	RA	EET ALB	04/24/24 05:19
Total/NA	Prep	SHAKE			3678	DH	EET ALB	04/22/24 13:39
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/24/24 01:57
Total/NA	Prep	300_Prep			3774	SS	EET ALB	04/23/24 16:44
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 09:48

Client Sample ID: R-2A-W3

Lab Sample ID: 885-3108-29
Matrix: Solid
Date Collected: 04/17/24 13:16
Date Received: 04/19/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			3757	JP	EET ALB	04/23/24 13:42
Total/NA	Analysis	8015D		1	3868	JP	EET ALB	04/24/24 16:16
Total/NA	Prep	5030C			3757	JP	EET ALB	04/23/24 13:42
Total/NA	Analysis	8021B		1	3869	JP	EET ALB	04/24/24 16:16
Total/NA	Prep	SHAKE			3768	JU	EET ALB	04/23/24 15:26
Total/NA	Analysis	8015D		1	3832	JU	EET ALB	04/24/24 19:04
Total/NA	Prep	300_Prep			3838	RC	EET ALB	04/24/24 14:12
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 16:51

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc Job ID: 885-3108-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No 4oGi

# of Coolers: 1

Cooler Temp(Including CF): 0.8 - 0.1 = 0.7 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 8

Tel. 505-345-3975 Fax 505-345-41

885-3108 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
4/17/24	0940	soil	PWA-1	1x4oz Jar	ICE	1	X	X	X
	0944		PWA-2			2			
	0946		PWA-3			3			
	0950		PWA-4			4			
	0952		PWA-5			5			
	0956		PWA-6			6			
	1000		PWA-7			7			
	1002		PWA-8			8			
	1006		PWA-9			9			
	1010		PWA-10			10			
	1200		PBA-1			11			
	1202		PBA-2			12			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/18/24	1050				4/18/24	1050
4/18/24	1900			Via: courier	4/19/24	7:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Boy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No 40g

# of Coolers: 1

Cooler Temp(Including CF): 0.8 - 0.1 = 0.7 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
4/17/24	1204	Soil	PBA-3	1x4oz Jar	ICE	13	X	X	X
	1208		PBA-4			14			
	1214		PBA-5			15			
	1216		PBA-6			16			
	1224		PBA-7			17			
	1230		PBA-8			18			
	1232		PBA-9			19			
	1238		PBA-10			20			
	1240		PBA-11			21			
	1248		PBA-12			22			
	1254		PBA-13			23			
	1300		PBA-14			24			

Remarks: Bill to EOG Artesia

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/18/24	1050				4/18/24	1050
4/18/24	1900			Courier	4/19/24	7:30

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

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Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

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Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(Including CF): 0.8 - 0.1 = 0.7 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
4/17/24	1302	Soil	PBA-15	1x4oz Jar	ICE	25	X	X	X
	1310		P-2B-W1			26			
	1312		P-2B-W2			27			
	1314		P-2B-W3			28			
	1316		P-2A-W3			29			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/18/24	1050				4/18/24	1050
Date:	Time:	Relinquished by:	Received by:	Via: courier	Date	Time
4/18/24	1900				4/19/24	7:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-3108-1

Login Number: 3108 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 6/4/2024 3:23:25 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-5134-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
6/4/2024 3:23:25 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Released to Imaging: 9/3/2025 1:20:26 PM

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-5134-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-5134-1
Project/Site: Roy SWD #3

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc Job ID: 885-5134-1
Project: Roy SWD #3

Job ID: 885-5134-1 **Eurofins Albuquerque**

Job Narrative
885-5134-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/25/2024 7:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-5721 and analytical batch 885-5938 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015D_DRO: Surrogate recovery for the following sample was outside control limits: (885-5134-A-7-C MS). Evidence of matrix interferences is not obvious. Parent and MSD have passing surrogate.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_OF_28D_PREC: The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 885-5755 and analytical batch 885-5840 exceeded control limits for the following analyte(s): Cl, Note that this analyte is a known poor performer when analyzed using this method.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-1

Date Collected: 05/24/24 08:40
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/28/24 09:01	05/30/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*05/28/24 09:01*	*05/30/24 18:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/28/24 09:01	05/30/24 18:27	1
Ethylbenzene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 18:27	1
Toluene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 18:27	1
Xylenes, Total	ND		0.097		mg/Kg		05/28/24 09:01	05/30/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/28/24 09:01*	*05/30/24 18:27*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		05/28/24 13:30	05/30/24 13:33	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/28/24 13:30	05/30/24 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*05/28/24 13:30*	*05/30/24 13:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**	**F1**	60		mg/Kg		05/29/24 07:48	05/29/24 12:18	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-2

Date Collected: 05/24/24 08:46
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/28/24 09:01	05/30/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*05/28/24 09:01*	*05/30/24 18:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/28/24 09:01	05/30/24 18:51	1
Ethylbenzene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 18:51	1
Toluene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 18:51	1
Xylenes, Total	ND		0.098		mg/Kg		05/28/24 09:01	05/30/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/28/24 09:01*	*05/30/24 18:51*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		05/28/24 13:30	05/30/24 13:57	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/28/24 13:30	05/30/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*66*		*62 - 134*	*05/28/24 13:30*	*05/30/24 13:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**	**F1**	60		mg/Kg		05/29/24 07:48	05/29/24 12:55	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-3

Date Collected: 05/24/24 08:50
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/28/24 09:01	05/30/24 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*05/28/24 09:01*	*05/30/24 19:14*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/28/24 09:01	05/30/24 19:14	1
Ethylbenzene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 19:14	1
Toluene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 19:14	1
Xylenes, Total	ND		0.099		mg/Kg		05/28/24 09:01	05/30/24 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/28/24 09:01*	*05/30/24 19:14*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		05/28/24 13:30	05/30/24 14:22	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/28/24 13:30	05/30/24 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*05/28/24 13:30*	*05/30/24 14:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		60		mg/Kg		05/29/24 07:48	05/29/24 13:32	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-4

Date Collected: 05/24/24 08:54
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/28/24 09:01	05/30/24 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*05/28/24 09:01*	*05/30/24 19:38*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/28/24 09:01	05/30/24 19:38	1
Ethylbenzene	ND		0.048		mg/Kg		05/28/24 09:01	05/30/24 19:38	1
Toluene	ND		0.048		mg/Kg		05/28/24 09:01	05/30/24 19:38	1
Xylenes, Total	ND		0.096		mg/Kg		05/28/24 09:01	05/30/24 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*05/28/24 09:01*	*05/30/24 19:38*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		05/28/24 13:30	05/30/24 14:46	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/28/24 13:30	05/30/24 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*63*		*62 - 134*	*05/28/24 13:30*	*05/30/24 14:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		60		mg/Kg		05/29/24 07:48	05/29/24 13:44	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-5

Date Collected: 05/24/24 08:56
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		05/28/24 09:01	05/30/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*05/28/24 09:01*	*05/30/24 20:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/28/24 09:01	05/30/24 20:01	1
Ethylbenzene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 20:01	1
Toluene	ND		0.049		mg/Kg		05/28/24 09:01	05/30/24 20:01	1
Xylenes, Total	ND		0.098		mg/Kg		05/28/24 09:01	05/30/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*05/28/24 09:01*	*05/30/24 20:01*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8		mg/Kg		05/28/24 13:30	05/30/24 15:11	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		05/28/24 13:30	05/30/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*66*		*62 - 134*	*05/28/24 13:30*	*05/30/24 15:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		05/29/24 07:48	05/29/24 13:56	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-6

Date Collected: 05/24/24 09:02
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		05/28/24 09:01	05/30/24 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*05/28/24 09:01*	*05/30/24 20:24*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/28/24 09:01	05/30/24 20:24	1
Ethylbenzene	ND		0.048		mg/Kg		05/28/24 09:01	05/30/24 20:24	1
Toluene	ND		0.048		mg/Kg		05/28/24 09:01	05/30/24 20:24	1
Xylenes, Total	ND		0.096		mg/Kg		05/28/24 09:01	05/30/24 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*05/28/24 09:01*	*05/30/24 20:24*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.5		mg/Kg		05/28/24 13:30	05/30/24 16:00	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		05/28/24 13:30	05/30/24 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*72*		*62 - 134*	*05/28/24 13:30*	*05/30/24 16:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		59		mg/Kg		05/29/24 07:48	05/29/24 14:34	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-7

Date Collected: 05/24/24 09:08
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/28/24 09:01	05/30/24 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*05/28/24 09:01*	*05/30/24 20:48*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		05/28/24 09:01	05/30/24 20:48	1
Ethylbenzene	ND		0.047		mg/Kg		05/28/24 09:01	05/30/24 20:48	1
Toluene	ND		0.047		mg/Kg		05/28/24 09:01	05/30/24 20:48	1
Xylenes, Total	ND		0.094		mg/Kg		05/28/24 09:01	05/30/24 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*05/28/24 09:01*	*05/30/24 20:48*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	F2	8.7		mg/Kg		05/28/24 13:30	05/30/24 16:24	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		05/28/24 13:30	05/30/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*71*		*62 - 134*	*05/28/24 13:30*	*05/30/24 16:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		05/29/24 07:48	05/29/24 14:46	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-8

Date Collected: 05/24/24 09:12
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		05/28/24 11:56	05/29/24 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*05/28/24 11:56*	*05/29/24 20:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		05/28/24 11:56	05/29/24 20:10	1
Ethylbenzene	ND		0.047		mg/Kg		05/28/24 11:56	05/29/24 20:10	1
Toluene	ND		0.047		mg/Kg		05/28/24 11:56	05/29/24 20:10	1
Xylenes, Total	ND		0.095		mg/Kg		05/28/24 11:56	05/29/24 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/28/24 11:56*	*05/29/24 20:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		05/30/24 14:51	05/31/24 15:55	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		05/30/24 14:51	05/31/24 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*69*		*62 - 134*	*05/30/24 14:51*	*05/31/24 15:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		60		mg/Kg		05/30/24 14:06	05/30/24 21:59	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-5688/1-A
Matrix: Solid
Analysis Batch: 5929

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5688

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/28/24 09:01	05/30/24 11:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*05/28/24 09:01*	*05/30/24 11:02*	*1*

Lab Sample ID: LCS 885-5688/2-A
Matrix: Solid
Analysis Batch: 5929

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5688

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	22.8		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*197*	*S1+*	*35 - 166*

Lab Sample ID: MB 885-5705/1-A
Matrix: Solid
Analysis Batch: 5860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5705

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/28/24 11:56	05/29/24 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*05/28/24 11:56*	*05/29/24 11:11*	*1*

Lab Sample ID: LCS 885-5705/2-A
Matrix: Solid
Analysis Batch: 5860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5705

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.2		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*201*	*S1+*	*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-5688/1-A
Matrix: Solid
Analysis Batch: 5930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5688

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/28/24 09:01	05/30/24 11:02	1
Ethylbenzene	ND		0.050		mg/Kg		05/28/24 09:01	05/30/24 11:02	1
Toluene	ND		0.050		mg/Kg		05/28/24 09:01	05/30/24 11:02	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-5688/1-A
Matrix: Solid
Analysis Batch: 5930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5688

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		05/28/24 09:01	05/30/24 11:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*05/28/24 09:01*	*05/30/24 11:02*	*1*

Lab Sample ID: LCS 885-5688/3-A
Matrix: Solid
Analysis Batch: 5930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5688

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.915		mg/Kg		91	70 - 130		
Ethylbenzene			1.00	0.881		mg/Kg		88	70 - 130		
Toluene			1.00	0.872		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			2.00	1.76		mg/Kg		88	70 - 130		
o-Xylene			1.00	0.863		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*

Lab Sample ID: MB 885-5705/1-A
Matrix: Solid
Analysis Batch: 5861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5705

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/28/24 11:56	05/29/24 11:11	1
Ethylbenzene	ND		0.050		mg/Kg		05/28/24 11:56	05/29/24 11:11	1
Toluene	ND		0.050		mg/Kg		05/28/24 11:56	05/29/24 11:11	1
Xylenes, Total	ND		0.10		mg/Kg		05/28/24 11:56	05/29/24 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*05/28/24 11:56*	*05/29/24 11:11*	*1*

Lab Sample ID: LCS 885-5705/3-A
Matrix: Solid
Analysis Batch: 5861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5705

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.944		mg/Kg		94	70 - 130		
Ethylbenzene			1.00	0.884		mg/Kg		88	70 - 130		
Toluene			1.00	0.885		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene			2.00	1.80		mg/Kg		90	70 - 130		
o-Xylene			1.00	0.882		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: 885-5134-7 MS
Matrix: Solid
Analysis Batch: 5938

Client Sample ID: NPW-7
Prep Type: Total/NA
Prep Batch: 5721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND	F2	44.5	30.2		mg/Kg		68	44 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*58*	*S1-*	*62 - 134*

Lab Sample ID: 885-5134-7 MSD
Matrix: Solid
Analysis Batch: 5938

Client Sample ID: NPW-7
Prep Type: Total/NA
Prep Batch: 5721

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND	F2	45.7	47.5	F2	mg/Kg		104	44 - 136	44	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*

Lab Sample ID: MB 885-5887/1-A
Matrix: Solid
Analysis Batch: 5949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5887

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/30/24 14:51	05/31/24 13:42	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/30/24 14:51	05/31/24 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*113*		*62 - 134*	*05/30/24 14:51*	*05/31/24 13:42*	*1*

Lab Sample ID: LCS 885-5887/2-A
Matrix: Solid
Analysis Batch: 5949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5887

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	53.5		mg/Kg		107	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*

Lab Sample ID: 885-5134-8 MS
Matrix: Solid
Analysis Batch: 5949

Client Sample ID: NPW-8
Prep Type: Total/NA
Prep Batch: 5887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		47.9	50.9		mg/Kg		106	44 - 136

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-5134-8 MS
Matrix: Solid
Analysis Batch: 5949

Client Sample ID: NPW-8
Prep Type: Total/NA
Prep Batch: 5887

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*111*		*62 - 134*

Lab Sample ID: 885-5134-8 MSD
Matrix: Solid
Analysis Batch: 5949

Client Sample ID: NPW-8
Prep Type: Total/NA
Prep Batch: 5887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		49.9	47.8		mg/Kg		96	44 - 136	6	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-5755/2-A
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5755

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		05/29/24 07:48	05/29/24 09:38	1

Lab Sample ID: LCS 885-5755/3-A
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5755

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.5		mg/Kg		95	90 - 110		

Lab Sample ID: MRL 885-5755/1-A
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5755

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			3.50	3.29		mg/L		94	50 - 150		

Lab Sample ID: 885-5134-1 MS
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: NPW-1
Prep Type: Total/NA
Prep Batch: 5755

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	210	F1	635	255	F1	mg/Kg		8	50 - 150		

Lab Sample ID: 885-5134-1 MSD
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: NPW-1
Prep Type: Total/NA
Prep Batch: 5755

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	210	F1	624	262	F1	mg/Kg		9	50 - 150	3	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-5134-2 MS
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: NPW-2
Prep Type: Total/NA
Prep Batch: 5755

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	210	F1	635	248	F1	mg/Kg		5	50 - 150

Lab Sample ID: 885-5134-2 MSD
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: NPW-2
Prep Type: Total/NA
Prep Batch: 5755

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	210	F1	624	249	F1	mg/Kg		6	50 - 150	0	20

Lab Sample ID: MB 885-5840/72
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/Kg			05/29/24 22:10	1

Lab Sample ID: MRL 885-5840/71
Matrix: Solid
Analysis Batch: 5840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			0.500	0.551		mg/L		110	50 - 150

Lab Sample ID: MB 885-5883/1-A
Matrix: Solid
Analysis Batch: 5918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5883

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		05/30/24 14:06	05/30/24 16:38	1

Lab Sample ID: LCS 885-5883/2-A
Matrix: Solid
Analysis Batch: 5918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5883

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			15.0	14.0		mg/Kg		93	90 - 110

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

GC VOA

Prep Batch: 5688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	5030C	
885-5134-2	NPW-2	Total/NA	Solid	5030C	
885-5134-3	NPW-3	Total/NA	Solid	5030C	
885-5134-4	NPW-4	Total/NA	Solid	5030C	
885-5134-5	NPW-5	Total/NA	Solid	5030C	
885-5134-6	NPW-6	Total/NA	Solid	5030C	
885-5134-7	NPW-7	Total/NA	Solid	5030C	
MB 885-5688/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-5688/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-5688/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 5705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	5030C	
MB 885-5705/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-5705/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-5705/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 5860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	8015M/D	5705
MB 885-5705/1-A	Method Blank	Total/NA	Solid	8015M/D	5705
LCS 885-5705/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5705

Analysis Batch: 5861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	8021B	5705
MB 885-5705/1-A	Method Blank	Total/NA	Solid	8021B	5705
LCS 885-5705/3-A	Lab Control Sample	Total/NA	Solid	8021B	5705

Analysis Batch: 5929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	8015M/D	5688
885-5134-2	NPW-2	Total/NA	Solid	8015M/D	5688
885-5134-3	NPW-3	Total/NA	Solid	8015M/D	5688
885-5134-4	NPW-4	Total/NA	Solid	8015M/D	5688
885-5134-5	NPW-5	Total/NA	Solid	8015M/D	5688
885-5134-6	NPW-6	Total/NA	Solid	8015M/D	5688
885-5134-7	NPW-7	Total/NA	Solid	8015M/D	5688
MB 885-5688/1-A	Method Blank	Total/NA	Solid	8015M/D	5688
LCS 885-5688/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5688

Analysis Batch: 5930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	8021B	5688
885-5134-2	NPW-2	Total/NA	Solid	8021B	5688
885-5134-3	NPW-3	Total/NA	Solid	8021B	5688
885-5134-4	NPW-4	Total/NA	Solid	8021B	5688
885-5134-5	NPW-5	Total/NA	Solid	8021B	5688
885-5134-6	NPW-6	Total/NA	Solid	8021B	5688
885-5134-7	NPW-7	Total/NA	Solid	8021B	5688

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

GC VOA (Continued)

Analysis Batch: 5930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-5688/1-A	Method Blank	Total/NA	Solid	8021B	5688
LCS 885-5688/3-A	Lab Control Sample	Total/NA	Solid	8021B	5688

GC Semi VOA

Prep Batch: 5721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	SHAKE	
885-5134-2	NPW-2	Total/NA	Solid	SHAKE	
885-5134-3	NPW-3	Total/NA	Solid	SHAKE	
885-5134-4	NPW-4	Total/NA	Solid	SHAKE	
885-5134-5	NPW-5	Total/NA	Solid	SHAKE	
885-5134-6	NPW-6	Total/NA	Solid	SHAKE	
885-5134-7	NPW-7	Total/NA	Solid	SHAKE	
885-5134-7 MS	NPW-7	Total/NA	Solid	SHAKE	
885-5134-7 MSD	NPW-7	Total/NA	Solid	SHAKE	

Prep Batch: 5887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	SHAKE	
MB 885-5887/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-5887/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-5134-8 MS	NPW-8	Total/NA	Solid	SHAKE	
885-5134-8 MSD	NPW-8	Total/NA	Solid	SHAKE	

Analysis Batch: 5938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	8015M/D	5721
885-5134-2	NPW-2	Total/NA	Solid	8015M/D	5721
885-5134-3	NPW-3	Total/NA	Solid	8015M/D	5721
885-5134-4	NPW-4	Total/NA	Solid	8015M/D	5721
885-5134-5	NPW-5	Total/NA	Solid	8015M/D	5721
885-5134-6	NPW-6	Total/NA	Solid	8015M/D	5721
885-5134-7	NPW-7	Total/NA	Solid	8015M/D	5721
885-5134-7 MS	NPW-7	Total/NA	Solid	8015M/D	5721
885-5134-7 MSD	NPW-7	Total/NA	Solid	8015M/D	5721

Analysis Batch: 5949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	8015M/D	5887
MB 885-5887/1-A	Method Blank	Total/NA	Solid	8015M/D	5887
LCS 885-5887/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5887
885-5134-8 MS	NPW-8	Total/NA	Solid	8015M/D	5887
885-5134-8 MSD	NPW-8	Total/NA	Solid	8015M/D	5887

HPLC/IC

Prep Batch: 5755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	300_Prep	
885-5134-2	NPW-2	Total/NA	Solid	300_Prep	
885-5134-3	NPW-3	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

HPLC/IC (Continued)

Prep Batch: 5755 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-4	NPW-4	Total/NA	Solid	300_Prep	
885-5134-5	NPW-5	Total/NA	Solid	300_Prep	
885-5134-6	NPW-6	Total/NA	Solid	300_Prep	
885-5134-7	NPW-7	Total/NA	Solid	300_Prep	
MB 885-5755/2-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-5755/3-A	Lab Control Sample	Total/NA	Solid	300_Prep	
MRL 885-5755/1-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-5134-1 MS	NPW-1	Total/NA	Solid	300_Prep	
885-5134-1 MSD	NPW-1	Total/NA	Solid	300_Prep	
885-5134-2 MS	NPW-2	Total/NA	Solid	300_Prep	
885-5134-2 MSD	NPW-2	Total/NA	Solid	300_Prep	

Analysis Batch: 5840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-1	NPW-1	Total/NA	Solid	300.0	5755
885-5134-2	NPW-2	Total/NA	Solid	300.0	5755
885-5134-3	NPW-3	Total/NA	Solid	300.0	5755
885-5134-4	NPW-4	Total/NA	Solid	300.0	5755
885-5134-5	NPW-5	Total/NA	Solid	300.0	5755
885-5134-6	NPW-6	Total/NA	Solid	300.0	5755
885-5134-7	NPW-7	Total/NA	Solid	300.0	5755
MB 885-5755/2-A	Method Blank	Total/NA	Solid	300.0	5755
MB 885-5840/72	Method Blank	Total/NA	Solid	300.0	
LCS 885-5755/3-A	Lab Control Sample	Total/NA	Solid	300.0	5755
MRL 885-5755/1-A	Lab Control Sample	Total/NA	Solid	300.0	5755
MRL 885-5840/71	Lab Control Sample	Total/NA	Solid	300.0	
885-5134-1 MS	NPW-1	Total/NA	Solid	300.0	5755
885-5134-1 MSD	NPW-1	Total/NA	Solid	300.0	5755
885-5134-2 MS	NPW-2	Total/NA	Solid	300.0	5755
885-5134-2 MSD	NPW-2	Total/NA	Solid	300.0	5755

Prep Batch: 5883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	300_Prep	
MB 885-5883/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-5883/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 5918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5134-8	NPW-8	Total/NA	Solid	300.0	5883
MB 885-5883/1-A	Method Blank	Total/NA	Solid	300.0	5883
LCS 885-5883/2-A	Lab Control Sample	Total/NA	Solid	300.0	5883

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-1

Lab Sample ID: 885-5134-1
Matrix: Solid
Date Collected: 05/24/24 08:40
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 18:27
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 18:27
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 13:33
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 12:18

Client Sample ID: NPW-2

Lab Sample ID: 885-5134-2
Matrix: Solid
Date Collected: 05/24/24 08:46
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 18:51
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 18:51
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 13:57
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 12:55

Client Sample ID: NPW-3

Lab Sample ID: 885-5134-3
Matrix: Solid
Date Collected: 05/24/24 08:50
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 19:14
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 19:14
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 14:22
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 13:32

Client Sample ID: NPW-4

Lab Sample ID: 885-5134-4
Matrix: Solid
Date Collected: 05/24/24 08:54
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 19:38

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-4

Lab Sample ID: 885-5134-4

Date Collected: 05/24/24 08:54
Matrix: Solid
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 19:38
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 14:46
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 13:44

Client Sample ID: NPW-5

Lab Sample ID: 885-5134-5

Date Collected: 05/24/24 08:56
Matrix: Solid
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 20:01
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 20:01
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 15:11
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 13:56

Client Sample ID: NPW-6

Lab Sample ID: 885-5134-6

Date Collected: 05/24/24 09:02
Matrix: Solid
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 20:24
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 20:24
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 16:00
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 14:34

Client Sample ID: NPW-7

Lab Sample ID: 885-5134-7

Date Collected: 05/24/24 09:08
Matrix: Solid
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 20:48
Total/NA	Prep	5030C			5688	AT	EET ALB	05/28/24 09:01
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 20:48

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-5134-1
Project/Site: Roy SWD #3

Client Sample ID: NPW-7
Lab Sample ID: 885-5134-7
Date Collected: 05/24/24 09:08
Matrix: Solid
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			5721	DH	EET ALB	05/28/24 13:30
Total/NA	Analysis	8015M/D		1	5938	DH	EET ALB	05/30/24 16:24
Total/NA	Prep	300_Prep			5755	JT	EET ALB	05/29/24 07:48
Total/NA	Analysis	300.0		20	5840	SS	EET ALB	05/29/24 14:46

Client Sample ID: NPW-8
Lab Sample ID: 885-5134-8
Date Collected: 05/24/24 09:12
Matrix: Solid
Date Received: 05/25/24 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			5705	AT	EET ALB	05/28/24 11:56
Total/NA	Analysis	8015M/D		1	5860	JP	EET ALB	05/29/24 20:10
Total/NA	Prep	5030C			5705	AT	EET ALB	05/28/24 11:56
Total/NA	Analysis	8021B		1	5861	JP	EET ALB	05/29/24 20:10
Total/NA	Prep	SHAKE			5887	SB	EET ALB	05/30/24 14:51
Total/NA	Analysis	8015M/D		1	5949	JU	EET ALB	05/31/24 15:55
Total/NA	Prep	300_Prep			5883	RC	EET ALB	05/30/24 14:06
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/30/24 21:59

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-5134-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☑ **Rush** 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1 40m.

Cooler Temp(including CF): 2.5+0.1=2.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 8710

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

885-5134 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
5/24/24	0846	SOIL	NPW-1	1x4oz Jar	ICE		X	X	X
	0846		NPW-2						
	0850		NPW-3						
	0854		NPW-4						
	0856		NPW-5						
	0902		NPW-6						
	0908		NPW-7						
	0912		NPW-8						

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/24/24	1645				5/24/24	1645
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
				Courier	5/25/24	7:30

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-5134-1

Login Number: 5134 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Rojas, Juan

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

ATTACHMENT 4 – NMOCD CORRESPONDENCE

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, September 13, 2022 3:05 PM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 90872

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2123047534,
with the following conditions:

- **The Remediation Plan is Conditionally Approved. The geosynthetic clay liner at 6 feet below ground surface is approved under the circumstance that as much contaminated soil is safely removed as possible. The excavations should be backfilled to 6 feet below surface with clean material, liner installed, and then backfilled to surface with clean material. Soil sample areas TH-A test excavation and TH-5 should be included in the process. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Confirmation samples should be collected every 200 ft2. A closure report will need to be completed and uploaded within 90 days.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505



Gmail Will Kierdorf <will@rangerenv.com>

Roy SWD #3 Meeting Review

Will Kierdorf <will@rangerenv.com> Mon, Dec 5, 2022 at 3:56 PM
To: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>
Cc: Chase Settle <Chase_Settle@eogresources.com>, Katie Jamison <Katie_Jamison@eogresources.com>, Patrick Finn <pkfinn@rangerenv.com>

Mike/Robert,

As requested, Ranger has prepared this email to summarize the results of our conference call on Tuesday November 29, 2022:

EASTERN OFF-PAD AND SOUTHERN ON-PAD AREAS (NAPP2111046250)

Ranger's October 12, 2021 *Site Characterization and Proposed Remediation Plan* proposed removal of affected soils located outside of the closed pit to a minimum depth of 6' bgs. The only exception to this was that any soils located adjacent to the pit whose removal might endanger the integrity of the closed pit would not be removed. In the area located over the closed pit, the remediation plan proposed to remove all affected soils located above the plastic liner of the pit. Soils exceeding the site closure criteria that were located outside of the closed pit and below a depth of six (6) feet bgs were proposed to be either excavated or covered with a geosynthetic clay liner. A geosynthetic clay liner was also proposed to be installed on top of the plastic liner which overlies the closed pit and then backfilled with two feet of topsoil. On April 21, 2022, the NMOCD approved the plan with the following conditions of approval:

"The Remediation Plan is Conditionally Approved. The variance for closure confirmation samples not to exceed 400 ft2 is approved. Removal of the plastic liner of the closed pit and a geosynthetic clay liner installation is approved. A geosynthetic clay liner located outside of the closed pit area is allowed at 6 ft below ground surface once all sample points have been vertically delineated and it has been determined that there is no imminent threat to ground water, surface water, human health, or the environment. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The work will need to occur 90 days after the work plan has been approved."

Due to activities related to the plugging and abandonment of the on-site disposal well, the start of remediation operations was delayed until May 10, 2022. A *Remediation Plan Update* dated July 20, 2022 was prepared and submitted to the NMOCD. Subsequent to the submittal of the July 2022 *Remediation Plan Update*, multiple additional phases of excavation were conducted, and additional cleanup confirmation soil samples were collected. At present, all soil excavation and removal activities have been completed. The geosynthetic clay liner (GCL) has not yet been installed, however, and is pending landowner approval.

Based upon the results of our conference call this morning, the NMOCD informed EOG and Ranger that the prior remediation plan approval related to the closed pit area was rescinded. The NMOCD stated that since the closed pit area was subsequently utilized as part of the facility pad/operations area, that the spill rules would apply. As such, the NMOCD requested that the following actions now be undertaken with regard to the closed pit area:

***Assessment of the closed pit area**: NMOCD requested that a minimum of 12 locations over the closed pit (within the bermed area), and an additional 2-3 locations over the closed pit area to the south of the pad berm, be assessed for potential impacts. The proposed assessment locations are depicted on the attached *Proposed Additional Assessment Location Map*. As requested in Mr. Bratchers 12/02/2022 email, three locations (identified with a blue dot on the attached figure) will be completed first and samples collected from the locations will be analyzed for BTEX, TPH and Cl. The three

locations have been selected based on the laboratory analytical results of samples previously collected from the immediate area of the proposed locations. Sample analysis of the remaining locations (identified with a green dot) will be determined based on the laboratory analytical results of samples collected at the initial three locations and field observations/readings (OVM readings, olfactory and visual observations).

***GCL Liner**: NMOCD has rescinded the prior approval to remove the affected soils located above the plastic liner of the pit and to cover the pit with a GCL liner and two feet of topsoil. Instead, the NMOCD will now require that any affected soil areas be excavated to a minimum depth of 4 feet bgs (to meet the reclamation requirements) with further discussion to occur in regards to liner placement after analytical results are received.

NORTHERN ON-PAD AREA (NMOCD Incident # nAPP2123047534)

Based upon the results of the conference call, the NMOCD was generally satisfied with the ongoing activities in this area as well as confirming that the previous remediation activities around the wellhead including liner placement are complete with no further actions to be completed where the confirmation samples were below closure criteria or in the lined area. It was discussed that the remediation approach for this area is similar to the eastern off-pad area with affected soil areas being excavated to minimum depths of 6 feet bgs and any areas remaining in exceedance of the closure criteria being covered with a GCL liner. The only possible exception to this would be that if any remaining soils below 6 feet bgs are documented to contain chloride concentrations in excess of 10,000 mg/Kg, then this will be discussed with the NMOCD prior to liner placement to determine whether attempts should be made to further excavate in these areas until soils with lower chloride concentrations are reached. Vertical delineation of impacts in the northern on-pad area will be conducted similarly to the eastern off-pad area.

TANK BATTERY AREA (2RP-4576 & 2RP-5094)

It was discussed that assessment activities have been completed in this area and an assessment report/remediation plan will be forthcoming.

The NMOCD is respectfully requested to confirm the above meeting summary so that all involved parties have a clear understanding of the actions which will now be required to achieve closure of the release incidents at this site. Upon completion of the assessment activities in the historic pit location, an additional meeting will be scheduled to discuss the findings and path forward for the area.

Sincerely,

--
Will Kierdorf, REM
Project Manager
Ranger Environmental Services, Inc.
P.O. Box 201179
Austin, TX 78720
Phone: 512-335-1785
Fax: 512-335-0527

Gmail Will Kierdorf <will@rangerenv.com>

Roy SWD #3 Meeting Review

Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov> Tue, Jan 24, 2023 at 12:07 PM
To: Will Kierdorf <will@rangerenv.com>
Cc: Chase Settle <Chase_Settle@eogresources.com>, Katie Jamison <Katie_Jamison@eogresources.com>, Patrick Finn <pkfinn@rangerenv.com>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

Will,

Your summary of our meeting is as discussed. Once the additional delineation has been performed in the area identified by a dashed red line, a decision can be made on final requirements for this area. The sample point areas identified are approved.

Thank you,

Mike Bratcher ● Incident Supervisor

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave | Artesia, NM 88210

(575) 626-0857 | mike.bratcher@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd

From: Will Kierdorf <will@rangerenv.com>
Sent: Thursday, January 5, 2023 2:42 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Chase Settle <Chase_Settle@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Patrick Finn <pkfinn@rangerenv.com>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: [EXTERNAL] Re: Roy SWD #3 Meeting Review

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Friday, August 20, 2021 11:36 AM
To: Robert.Hamlet@state.nm.us
Cc: Chase Settle; Greg Cox; 'Kelly Mack Cassels'; Michael Yemm; BODEE EUDY; Katie Jamison; ahowell@pvtn.net
Subject: Roy SWD 3 Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling activities to be conducted at the below location.

Roy SWD 3
7-19S-25E
Eddy County, NM
nAPP2123047534

Sampling will begin at 10:30 a.m. on Tuesday, August 24, 2021 and on Thursday, August 26, 2021.

Thank you and have a great day!

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, September 16, 2021 5:29 PM
To: Robert.Hamlet@state.nm.us
Cc: Artesia Regulatory; Chase Settle; Yvette Moore; Ashley Bravo
Subject: Roy SWD 3 (nAPP2123047534) Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling activities to be conducted at the below location.

Roy SWD 3
P-7-19S-25E
Eddy County, NM
nAPP2123047534

Sampling will begin at 7:30 a.m. on Tuesday, September 21, 2021.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

Released to Imaging: 9/3/2025 12:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, March 23, 2022 5:08 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; blm_nm_cfo_spill@blm.gov; Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>
Subject: [EXTERNAL] Roy SWD 3 (nAPP2123047534) Sampling Notification

---

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3

P-7-19S-25E

Eddy County, NM

nAPP2123047534

Sampling will begin at 8:00 a.m. on Wednesday, March 30, 2022.

Thank you,

Tina Huerta

Regulatory Specialist

Direct: 575.748.4168

Cell: 575.703.3121

Email: tina_huerta@eogresources.com

eog resources

Artesia Division

Released to Imaging: 9/3/2025 12:26:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

m: Tina Huerta <Tina_Huerta@eogresources.com>
nt: Thursday, March 31, 2022 9:48 AM
: Robert.Hamlet@state.nm.us; Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>
: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>
bject: Roy SWD 3 (nAPP2123047534) Sampling Notification

od Morning,

G Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

y SWD 3
-19S-25E
dy County, NM
PP2123047534

mpling will begin at 8:15 a.m. on Monday, April 4, 2022, and will be continuous through Friday, April 8, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources

Artesia Division

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Thursday, May 12, 2022 10:00 AM
To: Robert.Hamlet@state.nm.us; ahowell@pvtn.net; austin@atkinseng.com
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Subject: Roy SWD 3 (nAPP2123047534) Sampling Notification

Good morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD #3
7-19S-25E; Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 07:00 a.m. on Monday, May 16, 2022 and will continue through Friday, May 20, 2022.

Thank you,

Miriam Morales

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, September 21, 2022 10:12 AM
To: Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; Terrence Gant <Terry_Gant@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
P-7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 10:00 a.m. on Friday, September 23, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources

Artesia Division

Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP211104

Tina Huerta <Tina_Huerta@eogresources.com>
to ocd.enviro@emnrd.nm.gov, Alan & Cheryl, Austin Weyant, Andrea Felix, Katie Jamison, Michael Yemm, Terrence Ga

You are viewing an attached message. Rangerenv.com Mail can't verify the authenticity of attached messa

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
P-7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 10:00 a.m. on Monday, October 3, 2022 and will continue through Friday, October 7, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources

Artesia Division

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, October 6, 2022 8:18 AM
To: ocd.enviro@emnrd.nm.gov; Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; Terrence Gant <Terry_Gant@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
P-7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 10:00 a.m. on Monday, October 10, 2022 and will continue through Friday, October 14, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Tina Huerta <Tina_Huerta@eogresources.com>
to ocd.enviro@emnrd.nm.gov, Alan & Cheryl, Austin Weyant, Andrea Felix, Katie Jamison, Michael Yemm, Terrence Gant

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Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
P-7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 10:00 a.m. on Monday, October 24, 2022 and will continue through Friday, October 28, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Tina Huerta <Tina_Huerta@eogresources.com> Thu, Oct 27, 9:33 AM (20 hours ago)
to ocd.enviro@emnrd.nm.gov, Alan & Cheryl, Austin Weyant, Andrea Felix, Katie Jamison, Michael Yemm, Terrence Gant

You are viewing an attached message. Rangerenv.com Mail can't verify the authenticity of attached messages.

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3
P-7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 10:00 a.m. on Monday, October 31, 2022 and will continue through Friday, November 4, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Wednesday, November 2, 2022 4:14 PM
To: Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; ocd.enviro@emnrd.nm.gov
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Terrence Gant <Terry_Gant@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD #3
7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 10:00 a.m. on Monday, November 7, 2022 and will continue through Friday, November 11, 2022.

Thank you,

Miriam Morales

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, November 9, 2022 1:37 PM
To: ocd.enviro@emnrd.nm.gov; Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; Terrence Gant <Terry_Gant@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD #3
P-7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 10:00 a.m. on Monday, November 14, 2022 and will continue through Friday, November 18, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, November 16, 2022 4:17 PM
To: ocd.enviro@emnrd.nm.gov; Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; Terrence Gant <Terry_Gant@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD #3
P-7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 9:00 a.m. on Monday, November 21, 2022 and will continue through Tuesday, November 22, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eogresources
Artesia Division

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, November 28, 2022 9:48 AM
To: ocd.enviro@emnrd.nm.gov; Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; Terrence Gant <Terry_Gant@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD #3
P-7-19S-25E
Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 10:30 a.m. on Wednesday, November 30, 2022 and will continue through Friday, December 2, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources

Artesia Division

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, March 5, 2024 10:15 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 320189

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2123047534.

The sampling event is expected to take place:

When: 03/07/2024 @ 09:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle
575-703-6537
chase_settle@eogresources.com

Additional Instructions: Directions to site can be provided after an email request.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC. may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, April 15, 2024 10:42 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 333226

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2123047534.

The sampling event is expected to take place:

When: 04/17/2024 @ 09:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle
575-703-6537
chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, May 21, 2024 10:30 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 346197

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2123047534.

The sampling event is expected to take place:

When: 05/24/2024 @ 07:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.67059,-104.51773)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

RANGER
ENVIRONMENTAL SERVICES, LLC

RECLAMATION REPORT
(VOLUME 4 OF 4)
ROY SWD #3

NAB1801936658, NAB1834454137, NAPP2111045260, & NAPP2123047534
UNIT P, SECTION 7, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.67059, -104.51773
RANGER REFERENCE NO. 5375

PREPARED FOR:

EOG RESOURCES, INC.
MIDLAND DIVISION
5509 CHAMPIONS DRIVE
MIDLAND, TEXAS 79706

PREPARED BY:

RANGER ENVIRONMENTAL SERVICES, LLC
P.O. BOX 201179
AUSTIN, TEXAS 78720

MAY 30, 2025

Patrick K. Finn, P.G. (TX)
Project Geoscientist

William Kierdorf, REM
Project Manager

APPENDIX D – NMOCD APPROVED SITE REMEDIATION AND CLOSURE REPORTS

D.3 - NMOCD INCIDENTS #NAB1801936658 & #NAB1834454137

RANGER
ENVIRONMENTAL SERVICES, LLC

SITE REMEDIATION AND CLOSURE REPORT
ROY SWD #3 – TANK BATTERY AREA

NAB1801936658 & NAB1834454137
UNIT P, SECTION 7, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.67059, -104.51773
RANGER REFERENCE NO. 5375

PREPARED FOR:

EOG RESOURCES, INC.
MIDLAND DIVISION
5509 CHAMPIONS DRIVE
MIDLAND, TEXAS 79706

PREPARED BY:

RANGER ENVIRONMENTAL SERVICES, LLC
P.O. BOX 201179
AUSTIN, TEXAS 78720

JANUARY 21, 2025

Patrick K. Finn, P.G. (TX)
Project Geoscientist

William Kierdorf, REM
Project Manager

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3.0 SITE CLOSURE 4
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3.3 Closure Request 5

FIGURES

- Topographic Map
- Area Map
- Remediation Area Overview Map
- Final Excavation Area and Confirmation Sample Location Map

TABLES

- Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

ATTACHMENTS

- Attachment 1 – Photographic Documentation
- Attachment 2 – Laboratory Analytical Reports
- Attachment 3 – NMOCD Correspondence

RANGER
ENVIRONMENTAL SERVICES, LLC

SITE REMEDIATION AND CLOSURE REPORT
ROY SWD #3 – TANK BATTERY AREA

NAB1801936658 & NAB1834454137
UNIT P, SECTION 7, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.67059, -104.51773
RANGER REFERENCE NO. 5375

1.0 SITE LOCATION AND BACKGROUND

The Roy SWD #3 (Site) is located on private land, approximately 13.6 miles southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit P, Section 7, T19S-R25E at GPS coordinates 32.67059, -104.51773. The site was operated by EOG Resources, Inc. (EOG) and historically consisted of a saltwater disposal well, a tank battery with an earthen containment berm, pump houses and associated equipment. Operations at the site were once conducted within the full extent of the facility pad; however, a reduction of operations at the Site left the southern approximate half of the facility pad unused. Prior to the reporting of the subject incident detailed below, reclamation efforts to decommission the southern portion of the pad were completed. In April and May of 2022, plugging and abandonment of the on-site disposal well was completed. Additionally, the on-site tank battery and associated equipment has been taken out-of-service, decommissioned, and removed from the Site.

On January 4, 2018, a release was discovered at the Site due to a failure in the PVC waterleg line that connects the gun barrel to the water tank. The impacted area was approximately 90 feet by 20 feet inside of the battery berm to the north of the tanks. Initial response activities included source elimination and site stabilization activities, which recovered approximately 5 barrels (bbls) of fluid. The release and initial response activities were reported by EOG to the New Mexico Oil Conservation Division (NMOCD) on Form C-141, dated January 18, 2018 (NMOCD Remediation Permit RP-4576 / NMOCD Incident ID nAB1801936658).

In response to the release event, the visually impacted area of the release on the north side of the battery was excavated with the removal of impacted material resulting in an approximate 40 feet by 20 feet by 4 feet deep excavation which remained open for some time. In January 2018, Souder, Miller and Associates (SMA) completed soil boring activities in an attempt to delineate the impacts associated with the release and develop a remedial strategy for the incident.

Prior to the development of a remedial plan for the January 4, 2018 release, on November 13, 2018, an additional release was discovered due to failure of the line that connected the gun barrel to the produced water tank. The release resulted in an impacted area approximately 20 feet by 150 feet and was confined within the battery's earthen containment. Initial response activities were conducted by EOG which included source elimination and site stabilization, recovering 120 bbls of fluid. The release and initial response activities were reported by EOG to NMOCD on Form C-141, dated November 28, 2018 (NMOCD Remediation Permit RP-5094 / NMOCD Incident ID nAB1834454137).

From December 2018 to September 2019, representatives of SMA and EOG completed additional assessment efforts in the tank battery area. The efforts included the installation of addition soil borings and test excavations to assist in the delineation of the soil impacts.

EOG subsequently retained Ranger Environmental Services, LLC (Ranger) to oversee the remaining site assessment and remediation activities since Ranger was conducting other assessment and remediation activities at the former Roy SWD #3 facility (NMOCD Incident #s nAPP2111046250 and nAPP2123047534).

As summarized above, in April 2022, the Roy SWD #3 injection well was plugged and abandoned (P&A'd). Following completion of the P&A process, the remaining facility, including the tank battery, was decommissioned and removed from the Site. From May to August 2022, Ranger and representatives of EOG completed additional assessment efforts in the Tank Battery area which included the installation of additional soil borings and test excavations. Utilizing the findings of the completed SMA and Ranger assessment activities a Ranger prepared *Site Status Update and Proposed Remediation Plan*, dated November 1, 2022, was submitted to the NMOCD. The report included details and results of the completed site assessment activities and proposed a remedial strategy to address the impacts within the tank battery area. The proposed remedial strategy included limited soil removal to a depth of six feet below ground surface (bgs) and the installation of a geosynthetic clay liner (GCL). On June 2, 2023, the NMOCD approved (with conditions) the proposed remediation plan for the tank battery area. The NMOCD conditional approval stated that "*The variance for the geosynthetic clay liner at 6 feet below ground surface is approved under the circumstance that as much contaminated soil is safely removed as possible*."

Due to the prolonged NMOCD response to the November 1, 2022 *Site Status Update and Proposed Remediation Plan* and the on-going remedial operations associated with the above-referenced additional release incidents (NMOCD Incident #s nAPP2111046250 and nAPP2123047534), the remedial operations in the tank battery area were initiated in July 2024. It should be noted, however, that since it was unclear as to what the NMOCD would consider to be "safe" versus "unsafe" in regard to excavation depth, and what level of remediation would be considered acceptable to the NMOCD, a decision was made to remediate the subject release incidents to the applicable NMAC 19.15.29.12 Table 1 Criteria, detailed below.

A *Topographic Map* and *Area Map* noting the location of the subject property and surrounding areas are provided in the Figures section.

2.0 SITE REMEDIATION

2.1 Closure Criteria

Based upon the site characterization details provided in the November 1, 2022 *Site Status Update and Proposed Remediation Plan*, the Site was remediated to the Table 1 19.15.29.12 NMAC (groundwater ≤50' feet) criteria (Table 1 Criteria). Additionally, the remediation activities were completed to bring the surface to four-foot depth interval into compliance with the Restoration, Reclamation and Re-Vegetation criteria (Reclamation Criteria) detailed in 19.15.29.13 NMAC. The applicable NMAC 19.15.29 criteria are detailed below:

SITE CLOSURE CRITERIA[1]

REGULATORY STANDARD	CHLORIDE	TPH (GRO+DRO +MRO)	BTEX	BENZENE
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW ≤50') & 19.15.29.13 NMAC Restoration, Reclamation and Re-Vegetation (Soils 0'-4')	600	100[2]	50[2]	10[2]

All Values Presented in Parts Per Million (mg/Kg)

1. *Full site characterization details are included in the Site Characterization and Proposed Remediation Work Plan, dated November 1, 2022.*
2. *Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of Digital C-141 and the release rule (19.15.29 NMAC) dated December 1, 2023.*

2.2 Impacted Soil Removal and Remediation Summary

Soil removal operations were completed at the Site from July 11, 2024 to December 19, 2024. Field readings were continuously collected throughout the excavation process to guide the horizontal and vertical extents of the excavation and qualitatively assess the cleanup progress. The field screening activities conducted by Ranger personnel during the soil excavation process involved the usage of an organic vapor monitor (OVM) and field chloride titration kit to assist in guiding the excavation to appropriate boundaries. Upon reaching boundaries in an area which appeared to have attained the site closure criteria based upon the field screening results, cleanup confirmation soil samples were then collected for laboratory analysis in accordance with the approved Remediation Plan. Prior to each cleanup confirmation soil sampling event, appropriate notice was provided to the NMOCD in accordance with NMAC 19.15.29.12 (D). Copies of the notifications are attached.

Numerous cleanup confirmation soil sampling events were ultimately conducted to verify the field readings and confirm whether or not the site closure criteria had been attained. In the event that the cleanup confirmation soil sampling results indicated that the site closure criteria had not been attained, then additional over-excavation and re-sampling of those areas was conducted.

The cleanup confirmation soil samples were collected in accordance with NMAC 19.15.29.12 Subsection D as representative five-point composite samples from the sidewalls and base representative of no more than 200 square feet. The samples were collected and managed using standard QA/QC and chain-of-custody procedures. Ranger personnel wore new nitrile gloves while handling each sample in order to prevent cross-contamination of samples.

The collected soil samples were containerized in sterile, laboratory-suppled containers and were subsequently sealed in one or more zip lock bags and stored in a sample shuttle containing ice until arrival at the laboratory for chemical analysis. All sample containers were labeled with the project name, sample identification, date and time of sample collection, and samplers' initials. Chain-of-custody forms were completed to document sample transport to the analytical laboratory.

Upon collection, the soil samples were submitted to Eurofins Albuquerque (formerly Hall Environmental Analysis Laboratory, Inc.) in Albuquerque, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and, total chloride using EPA Method 300. Copies of the laboratory analytical reports including chain-of-custody documentation are attached.

2.3 Final Excavation Dimensions and Cleanup Confirmation Soil Sample Results

The final cleanup confirmation soil sample results documented attainment of the Table 1 Criteria (GW ≤50') and Reclamation Criteria summarized in Section 2.1. Upon completion of the soil removal activities, the excavated area had maximum dimensions of approximately 183 feet by 79 feet and was completed to depths ranging from approximately 2' to 28' bgs. A *Final Excavation Area and Confirmation Sample Location Map* is provided in the Figures section which illustrates the completed excavation boundaries and the locations of the final cleanup confirmation soil samples.

During the remediation process, the primary constituent of concern was documented to be chloride. Four cleanup confirmation soil samples collected in August 2024 were, however, found to contain TPH concentrations that were slightly elevated above the target cleanup criteria, and as such these areas were subsequently overexcavated. It should be noted, however, that three cleanup confirmation soil samples collected on November 25, 2024 were documented to contain TPH concentrations that were greater than the levels previously documented within the excavation in August 2024. These elevated TPH concentrations were associated with a minor hydraulic fluid spray of deminimis volume originating from the site excavation equipment. Repairs to the equipment were completed and the affected areas were subsequently removed.

The attached "*Tank Battery Confirmation Samples - Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data*" table provides a comprehensive summary of the laboratory analytical results for the cleanup confirmation soil samples collected during the site remediation process. Any results presented with a "strikethrough" indicate that those sample areas were further over-excavated and resampled.

2.4 Waste Disposal

All soils generated during the remedial excavation activities at the Site were transported to disposal at either the Lea Land disposal facility in Eddy County, New Mexico or the Gandy Marley disposal facility located in Chavez County, New Mexico.

3.0 SITE CLOSURE

3.1 Site Completion & Backfill

Upon successfully completing remediation to boundaries where soil concentrations were documented to be within the target closure criteria, the areas were backfilled with clean fill material in accordance with NMAC 19.15.29.12 and NMAC 19.15.29.13. At the time of this report, backfilling of the excavated areas is ongoing.

3.2 Site Revegetation & Reclamation

Since the Site is no longer active, revegetation and reclamation efforts will be completed in accordance with NMAC 19.15.29.13. Full details of the Site revegetation and reclamation efforts will be submitted in a subsequent *Site Reclamation Report*.

3.3 Closure Request

Based on the completed site remediation and cleanup confirmation soil sampling activities, the site has been properly addressed pursuant to NMAC 19.15.29 and EOG respectfully requests closure of the incident

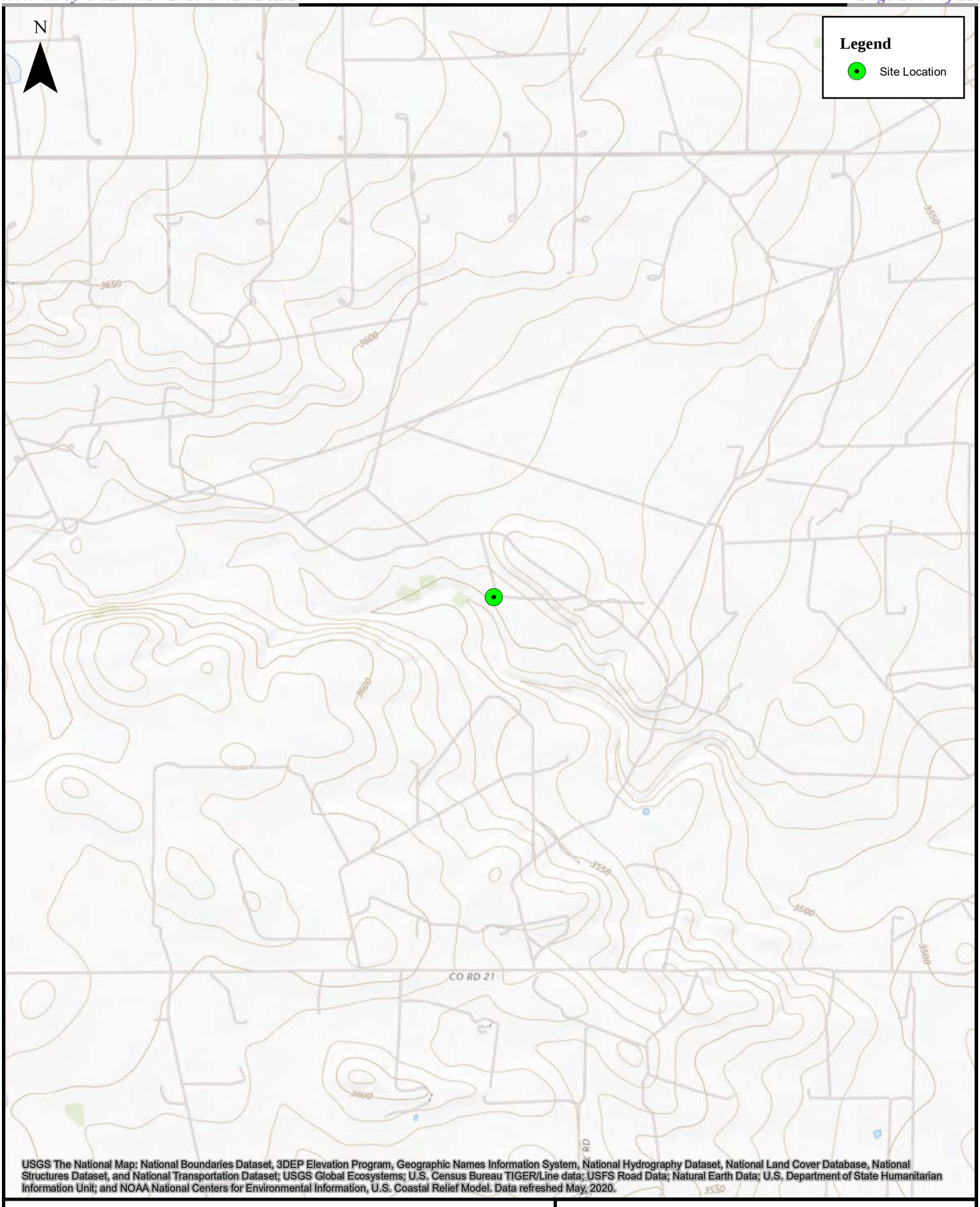
FIGURES

Topographic Map

Area Map

Remediation Area Overview Map

Final Excavation & Confirmation Sample Location Map



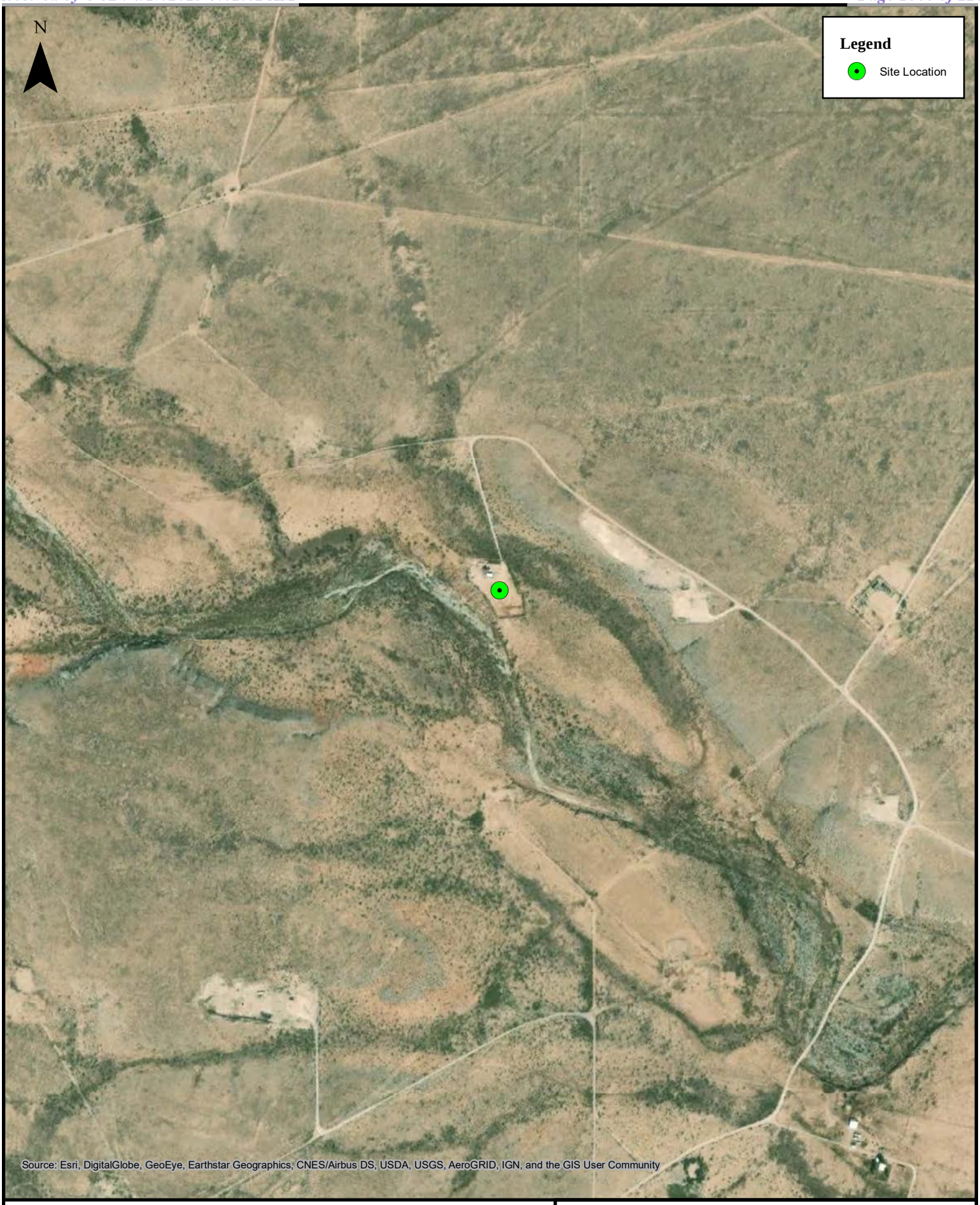
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed May, 2020.

RANGER ENVIRONMENTAL SERVICES, LLC

0 600 1,200 2,400 3,600 4,800 Feet

1:24,000

Topographic Map
Roy SWD #3
EOG Resources, Inc.

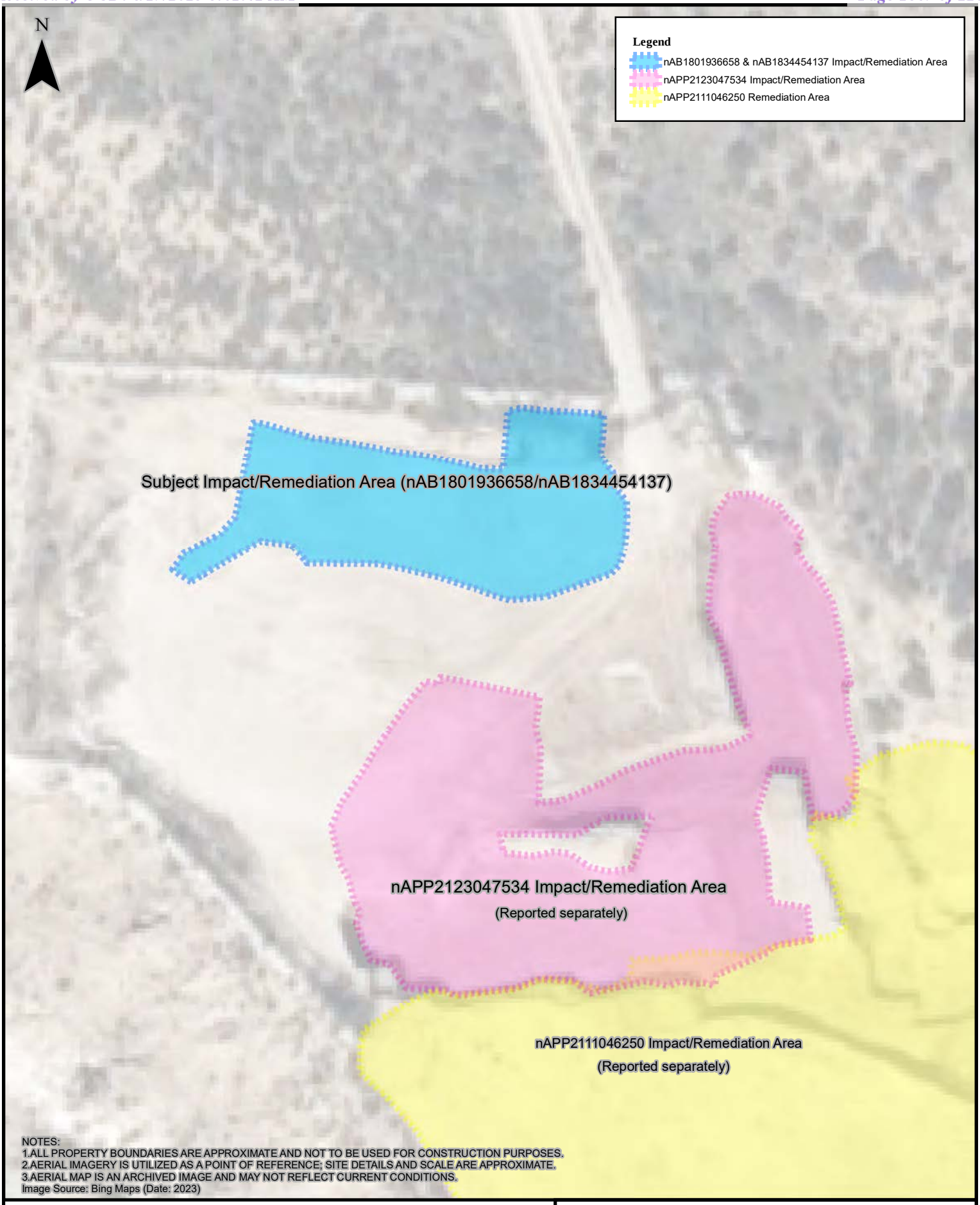


RANGER ENVIRONMENTAL SERVICES, LLC

0 250 500 1,000 1,500 2,000 Feet

1:10,000

Area Map
Roy SWD #3
EOG Resources, Inc.



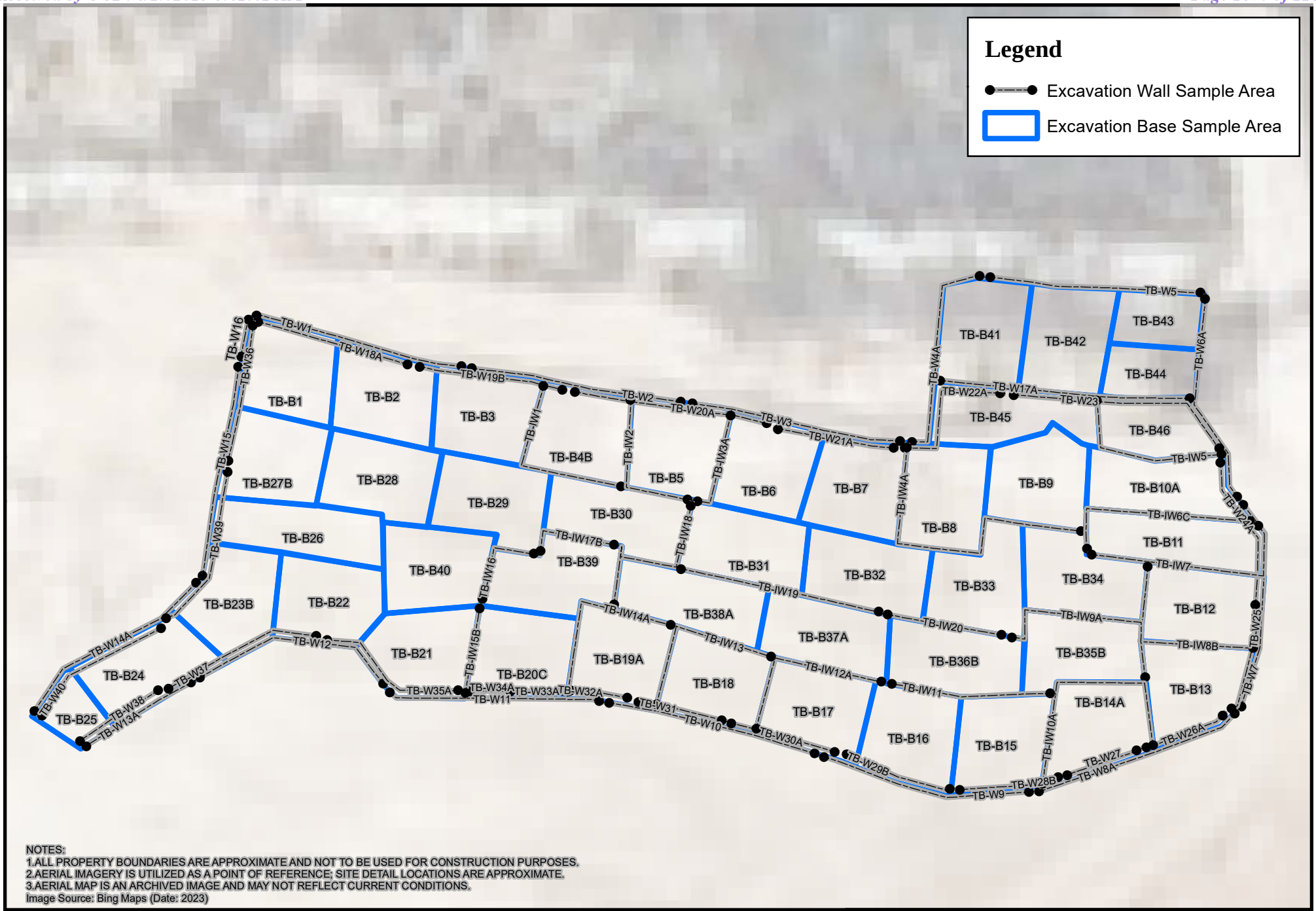
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Bing Maps (Date: 2023)

RANGER ENVIRONMENTAL SERVICES, LLC

0 10 20 40 60 80 Feet

1:600

Remediation Area Overview Map
Roy SWD #3
EOG Resources, Inc.



NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Bing Maps (Date: 2023)

RANGER ENVIRONMENTAL SERVICES, LLC

0 5 10 20 30 40 Feet

1:225

N

Final Excavation Area and Confirmaiton Sample Location Map

Roy SWD #3
EOG Resources, Inc.

TABLES

Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
Excavation Base Soil Samples													
TB-B1	9/9/2024	14'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<10	<50	<10	<50	260
TB-B2	9/9/2024	14'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.9	<50	<9.9	<50	430
TB-B3	9/9/2024	14'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.2	<46	<9.2	<46	270
~~TB-B4~~	~~9/9/2024~~	~~14'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.1~~	~~<5.0~~	~~<9.6~~	~~<48~~	~~<9.6~~	~~<48~~	~~700~~
~~TB-B4A~~	~~10/3/2024~~	~~16'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.1~~	~~<5.0~~	~~<9.6~~	~~<48~~	~~<9.6~~	~~<48~~	~~1,400~~
TB-B4B	10/17/2024	17'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<10	<50	<10	<50	230
TB-B5	8/13/2024	8'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<10	<50	<10	<50	330
TB-B6	9/9/2024	17'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.4	<47	<9.4	<47	350
TB-B7	9/9/2024	14'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.3	<47	<9.3	<47	380
TB-B8	9/9/2024	14'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.7	<49	<9.7	<49	190
TB-B9	9/9/2024	14'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.2	<46	<9.2	<46	380
~~TB-B10~~	~~8/13/2024~~	~~8'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.1~~	~~<4.9~~	~~<9.6~~	~~<48~~	~~<9.6~~	~~<48~~	~~1,300~~
TB-B10A	9/9/2024	14'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<9.2	<46	<9.2	<46	120
TB-B11	9/9/2024	19'	<0.023	<0.046	<0.046	<0.093	<0.1	<4.6	<9.4	<47	<9.4	<47	600
TB-B12	9/9/2024	14'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.6	<48	<9.6	<48	270
TB-B13	9/9/2024	19'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	<9.9	<49	<9.9	<49	<60
~~TB-B14~~	~~9/9/2024~~	~~14'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~<9.9~~	~~<49~~	~~<9.9~~	~~<49~~	~~950~~
TB-B14A	10/3/2024	16'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.1	<45	<9.1	<45	550
TB-B15	9/9/2024	17'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.1	<45	<9.1	<45	180
TB-B16	9/9/2024	17'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.3	<46	<9.3	<46	91
TB-B17	9/9/2024	17'	<0.023	<0.046	<0.046	<0.093	<0.1	<4.6	<9.7	<49	<9.7	<49	82
TB-B18	9/9/2024	19'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.9	<49	<9.9	<49	63
~~TB-B19~~	~~8/13/2024~~	~~8'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.1~~	~~<4.8~~	~~160~~	~~190~~	~~160~~	~~350~~	~~520~~
TB-B19A	9/9/2024	22'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.2	<46	<9.2	<46	78
~~TB-B20~~	~~8/13/2024~~	~~8'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<9.9~~	~~<50~~	~~<9.9~~	~~<50~~	~~1,200~~
~~TB-B-20-A~~	~~9/9/2024~~	~~17'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.095~~	~~<0.1~~	~~<4.8~~	~~<8.8~~	~~<44~~	~~<8.8~~	~~<44~~	~~830~~
~~TB-B20B~~	~~10/3/2024~~	~~27'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.1~~	~~<4.9~~	~~<9.7~~	~~<48~~	~~<9.7~~	~~<48~~	~~900~~
TB-B20C	10/17/2024	28'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<9.6	<48	<9.6	<48	140
TB-B21	9/9/2024	14'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<9.0	<45	<9.0	<45	<60
TB-B22	9/9/2024	14'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.2	<46	<9.2	<46	160
~~TB-B23~~	~~8/13/2024~~	~~8'~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.092~~	~~<0.1~~	~~<4.6~~	~~<9.7~~	~~<48~~	~~<9.7~~	~~<48~~	~~780~~
~~TB-B-23A~~	~~9/9/2024~~	~~8-12'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.1~~	~~<4.9~~	~~<9.7~~	~~<49~~	~~<9.7~~	~~<49~~	~~670~~
TB-B23B	12/19/2024	8-13'	<0.020	<0.040	<0.040	<0.081	<0.1	<4.0	<9.7	<48	<9.7	<48	<60
TB-B24	8/13/2024	8'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.7	<49	<9.7	<49	440
TB-B25	8/13/2024	0-8'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.7	<49	<9.7	<49	220
TB-B26	9/92024	14'	<0.023	<0.047	<0.047	<0.093	<0.1	<4.7	<9.9	<50	<9.9	<50	150
TB-B27	9/92024	14'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.9	<50	<9.9	<50	200
~~TB-B27A~~	~~10/3/2024~~	~~14'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<9.9~~	~~<50~~	~~<9.9~~	~~<50~~	~~7,000~~
TB-B27B	10/17/2024	15'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.6	<48	<9.6	<48	200
TB-B28	9/92024	14'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.6	<48	<9.6	<48	250
TB-B29	9/92024	14'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.9	<49	<9.9	<49	240
TB-B30	9/92024	14'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.8	<49	<9.8	<49	270
TB-B31	9/92024	17'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.6	<48	<9.6	<48	290
TB-B32	9/92024	17'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.5	<48	<9.5	<48	290
TB-B33	9/92024	17'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<8.6	<43	<8.6	<43	<60
TB-B34	9/92024	14'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.5	<48	<9.5	<48	500
~~TB-B35~~	~~9/92024~~	~~14'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.1~~	~~<5.0~~	~~<9.5~~	~~<47~~	~~<9.5~~	~~<47~~	~~1,600~~
~~TB-B35A~~	~~10/3/2024~~	~~16'~~	~~<0.023~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.1~~	~~<45~~	~~<9.1~~	~~<45~~	~~2300~~
TB-B35B	10/17/2024	17'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.7	<48	<9.7	<48	150
~~TB-B36~~	~~9/92024~~	~~17'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.3~~	~~<46~~	~~<9.3~~	~~<46~~	~~1,300~~
~~TB-B36A~~	~~10/3/2024~~	~~19'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.1~~	~~<4.9~~	~~<10~~	~~<50~~	~~<10~~	~~<50~~	~~970~~
TB-B36B	10/17/2024	20'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.6	<48	<9.6	<48	330
~~TB-B37~~	~~9/92024~~	~~17'~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.093~~	~~<0.1~~	~~<4.6~~	~~<9.2~~	~~<46~~	~~<9.2~~	~~<46~~	~~1,600~~
TB-B37A	10/17/2024	20'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<8.9	<45	<8.9	<45	250
TB-B38A	10/3/2024	20'	<0.023	<0.047	<0.047	<0.093	<0.1	<4.7	<8.9	<45	<8.9	<45	65
TB-B39	10/3/2024	27'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.4	<47	<9.4	<47	66
TB-B40	10/3/2024	14'	<0.023	<0.046	<0.046	<0.093	<0.1	<4.6	<8.6	<43	<8.6	<43	82
TB-B41	8/13/2024	2'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	<10	<50	<10	<50	280
TB-B42	8/13/2024	2'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.5	<47	<9.5	<47	390
TB-B43	8/13/2024	2'	<0.023	<0.047	<0.047	<0.093	<0.1	<4.7	24	<49	24	24	190
TB-B44	8/13/2024	2'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.9	<49	<9.9	<49	250
TB-B45	10/3/2024	14'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<8.6	<43	<8.6	<43	77
TB-B46	8/13/2024	8'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.7	<48	<9.7	<48	390

CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
Excavation Wall Soil Samples													
TB-W1	8/13/2024	0'-6'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<10	<50	<10	<50	300
TB-W2	8/13/2024	0'-6'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.3	<46	<9.3	<46	160
TB-W3	8/13/2024	0'-6'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.9	<50	<9.9	<50	240
~~TB-W4~~	~~8/13/2024~~	~~0-2'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~44~~	~~60~~	~~44~~	~~104~~	~~190~~
TB-W4A	9/9/2024	2'-14'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.8	<49	<9.8	<49	410
TB-W5	8/13/2024	0-2'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.6	<48	<9.6	<48	600
~~TB-W6~~	~~8/13/2024~~	~~2-8'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.1~~	~~<4.8~~	~~45~~	~~56~~	~~45~~	~~101~~	~~180~~
TB-W6A	9/9/2024	2'-14'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.5	<48	<9.5	<48	71
TB-W7	8/13/2024	0'-6'	<0.024	<0.048	<0.048	<0.097	<0.1	<4.8	<9.7	<48	<9.7	<48	160
~~TB-W8~~	~~8/13/2024~~	~~0-6'~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.093~~	~~<0.1~~	~~<4.6~~	~~98~~	~~120~~	~~98~~	~~218~~	~~440~~
TB-W8A	9/9/2024	0-14'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.6	<48	<9.6	<48	110
TB-W9	8/13/2024	0'-6'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	<10	<50	<10	<50	550
TB-W10	8/13/2024	0'-6'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	<9.4	<47	<9.4	<47	550
TB-W11	8/13/2024	0'-6'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.5	<48	<9.5	<48	97
TB-W12	8/13/2024	0'-6'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.8	<49	<9.8	<49	93
~~TB-W13~~	~~8/13/2024~~	~~0-6'~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.093~~	~~<0.1~~	~~<4.6~~	~~<9.7~~	~~<49~~	~~<9.7~~	~~<49~~	~~1,600~~
TB-W13A	9/9/2024	0'-6'	<0.025	<0.050	<0.050	<0.099	<0.1	<5.0	35	<49	35	35	70
~~TB-W14~~	~~8/13/2024~~	~~0-6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.095~~	~~<0.1~~	~~<4.8~~	~~<9.8~~	~~<49~~	~~<9.8~~	~~<49~~	~~1,700~~
TB-W14A	9/9/2024	0'-14'	<0.023	<0.046	<0.046	<0.093	<0.1	<4.6	21	<48	21	21	<60
TB-W15	8/13/2024	0'-6'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.8	<49	<9.8	<49	81
TB-W16	8/13/2024	0'-6'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.9	<49	<9.9	<49	540
~~TB-W17~~	~~8/13/2024~~	~~2-6'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~<10~~	~~<50~~	~~<10~~	~~<50~~	~~1,000~~
TB-W17A	9/9/2024	2'-14'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.8	<49	<9.8	<49	110
~~TB-W18~~	~~11/1/2024~~	~~6-14'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.1~~	~~<5.0~~	~~<9.5~~	~~<48~~	~~<9.5~~	~~<48~~	~~1,500~~
TB-W18A	11/25/2024	6-14'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.1	<46	<9.1	<46	340
~~TB-W19~~	~~11/1/2024~~	~~6-18'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.1~~	~~<5.0~~	~~<9.5~~	~~<48~~	~~<9.5~~	~~<48~~	~~1,500~~
~~TB-W19A~~	~~11/25/2024~~	~~6-18'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~460~~	~~810~~	~~460~~	~~1,270~~	~~310~~
TB-W19B	12/9/2024	6-18'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	13	60	13	73	570
~~TB-W20~~	~~11/1/2024~~	~~6-18'~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.1~~	~~<5.0~~	~~<9.4~~	~~<47~~	~~<9.4~~	~~<47~~	~~1,300~~
TB-W20A	11/25/2024	6-18'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.9	<50	<9.9	<50	440
~~TB-W21~~	~~11/1/2024~~	~~6-17'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.1~~	~~<4.9~~	~~<9.6~~	~~<48~~	~~<9.6~~	~~<48~~	~~1,100~~
TB-W21A	11/25/2024	6-17'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<10	<50	<10	<50	400
~~TB-W22~~	~~11/1/2024~~	~~6-17'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.1~~	~~<4.9~~	~~<9.5~~	~~<48~~	~~<9.5~~	~~<48~~	~~1,100~~
TB-W22A	11/25/2024	6-17'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	<9.6	<48	<9.6	<48	120
TB-W23	11/1/2024	6-14'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.3	<47	<9.3	<47	490
~~TB-W24~~	~~11/1/2024~~	~~6-14'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<9.6~~	~~<48~~	~~<9.6~~	~~<48~~	~~640~~
TB-W24A	11/25/2024	6-14'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.3	<47	<9.3	<47	310
TB-W25	11/1/2024	6-19'	<0.023	<0.047	<0.047	<0.093	<0.1	<4.7	<9.8	<49	<9.8	<49	510
~~TB-W26~~	~~11/1/2024~~	~~6-22'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~<9.6~~	~~<48~~	~~<9.6~~	~~<48~~	~~1,000~~
TB-W26A	11/25/2024	6-22'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.6	<48	<9.6	<48	250
TB-W27	11/1/2024	6-22'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.9	<49	<9.9	<49	510
~~TB-W28~~	~~11/1/2024~~	~~6-22'~~	~~<0.023~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.3~~	~~<46~~	~~<9.3~~	~~<46~~	~~1,200~~
~~TB-W28A~~	~~11/25/2024~~	~~6-22'~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.093~~	~~<0.1~~	~~<4.6~~	~~250~~	~~390~~	~~250~~	~~640~~	~~460~~
TB-W28B	12/9/2024	6-22'	<0.019	<0.038	<0.038	<0.076	<0.1	<3.8	12	<50	12	12	500
~~TB-W29~~	~~11/1/2024~~	~~6-17'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.8~~	~~<49~~	~~<9.8~~	~~<49~~	~~990~~
~~TB-W29A~~	~~11/25/2024~~	~~6-17'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.2~~	~~<46~~	~~<9.2~~	~~<46~~	~~680~~
TB-W29 B	12/9/2024	6-17'	<0.027	<0.053	<0.053	<0.11	<0.1	<5.3	<9.9	<50	<9.9	<50	580
~~TB-W30~~	~~11/1/2024~~	~~6-19'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.1~~	~~<4.9~~	~~<10~~	~~<50~~	~~<10~~	~~<50~~	~~2,000~~
TB-W30A	11/25/2024	6-19'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	<9.1	<46	<9.1	<46	440
TB-W31	11/1/2024	6-22'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.7	<48	<9.7	<48	400
~~TB-W32~~	~~11/1/2024~~	~~6-22'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.8~~	~~<49~~	~~<9.8~~	~~<49~~	~~1,400~~
TB-W32A	11/25/2024	6-22'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.3	<47	<9.3	<47	360
~~TB-W33~~	~~11/1/2024~~	~~6-28'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.1~~	~~<4.9~~	~~<9.4~~	~~<47~~	~~<9.4~~	~~<47~~	~~1,500~~
TB-W33A	11/25/2024	6-28'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<10	<50	<10	<50	260
~~TB-W34~~	~~11/1/2024~~	~~6-28'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.095~~	~~<0.1~~	~~<4.8~~	~~<9.2~~	~~<46~~	~~<9.2~~	~~<46~~	~~2,100~~
~~TB-W34A~~	~~11/25/2024~~	~~6-28'~~	~~<0.023~~	~~<0.047~~	~~<0.047~~	~~<0.093~~	~~<0.1~~	~~<4.7~~	~~4,100~~	~~7,700~~	~~4,100~~	~~11,800~~	~~500~~
TB-W34B	12/9/2024	~~6-28'~~	<0.022	<0.045	<0.045	<0.090	<0.1	<4.5	<9.7	<48	<9.7	<48	320
~~TB-W35~~	~~11/1/2024~~	~~6-14'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.1~~	~~<4.9~~	~~<9.5~~	~~<48~~	~~<9.5~~	~~<48~~	~~2,000~~
TB-W35A	11/25/2024	6-14'	<0.024	<0.048	<0.048	<0.095	<0.1	<4.8	<9.6	<48	<9.6	<48	260
TB-W36	11/1/2024	6-15'	<0.024	<0.049	<0.049	<0.097	<0.1	<4.9	<9.5	<47	<9.5	<47	400
TB-W37	12/19/2024	6'-14'	<0.027	<0.054	<0.054	<0.11	<0.1	<5.4	<9.4	<47	<9.4	<47	110
TB-W38	12/19/2024	6'-8'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.5	<47	<9.5	<47	<60
TB-W39	12/19/2024	6'-14'	<0.021	<0.041	<0.041	<0.083	<0.1	<4.1	<9.2	<46	<9.2	<46	<60
TB-W40	12/19/2024	6'-8'	<0.022	<0.044	<0.044	<0.088	<0.1	<4.4	<9.4	<47	<9.4	<47	<60

CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
ROY SWD #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
TB-IW1	11/1/2024	14-18'	<0.023	<0.047	<0.047	<0.093	<0.1	<4.7	<9.1	<46	<9.1	<46	300
TB-IW2	11/1/2024	8-18'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<9.9	<49	<9.9	<49	92
~~TB-IW3~~	~~11/1/2024~~	~~8-17'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.7~~	~~<49~~	~~<9.7~~	~~<49~~	~~1,900~~
TB-IW3A	11/25/2024	8-17'	<0.023	<0.047	<0.047	<0.093	<0.1	<4.7	<9.6	<48	<9.6	<48	310
~~TB-IW4~~	~~11/1/2024~~	~~14-17'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.1~~	~~<4.9~~	~~<9.6~~	~~<48~~	~~<9.6~~	~~<48~~	~~1,300~~
TB-IW4A	11/25/2024	14-17'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.9	<50	<9.9	<50	300
TB-IW5	11/1/2024	8-14'	<0.025	<0.049	<0.049	<0.098	<0.1	<4.9	<9.9	<50	<9.9	<50	220
~~TB-IW6~~	~~11/1/2024~~	~~14-19'~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.099~~	~~<0.1~~	~~<4.9~~	~~<9.3~~	~~<46~~	~~<9.3~~	~~<46~~	~~1,900~~
~~TB-IW6A~~	~~11/25/2024~~	~~14-19'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~<9.8~~	~~<49~~	~~<9.8~~	~~<49~~	~~1,300~~
~~TB-IW6B~~	~~12/9/2024~~	~~14-19'~~	~~<0.022~~	~~<0.044~~	~~<0.044~~	~~<0.088~~	~~<0.1~~	~~<4.4~~	~~<9.6~~	~~<48~~	~~<9.6~~	~~<48~~	~~1,400~~
TB-IW6C	12/19/2024	14'-19'	<0.020	<0.041	<0.041	<0.081	<0.1	<4.1	<9.8	<49	<9.8	<49	<60
TB-IW7	11/1/2024	14-19'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.2	<46	<9.2	<46	260
~~TB-IW8~~	~~11/1/2024~~	~~14-22'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.097~~	~~<0.1~~	~~<4.8~~	~~<9.5~~	~~<48~~	~~<9.5~~	~~<48~~	~~1,500~~
~~TB-IW8A~~	~~11/25/2024~~	~~14-22'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.5~~	~~<48~~	~~<9.5~~	~~<48~~	~~1,400~~
TB-IW8B	12/9/2024	14-22'	<0.022	<0.044	<0.044	<0.088	<0.1	<4.4	<9.7	<48	<9.7	<48	310
~~TB-IW9~~	~~11/1/2024~~	~~17-22'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~<9.5~~	~~<48~~	~~<9.5~~	~~<48~~	~~1,700~~
TB-IW9A	11/25/2024	17-22'	<0.024	<0.047	<0.047	<0.094	<0.1	<4.7	<9.2	<46	<9.2	<46	500
~~TB-IW10~~	~~11/1/2024~~	~~17-22'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.1~~	~~<4.9~~	~~<9.8~~	~~<49~~	~~<9.8~~	~~<49~~	~~2,000~~
TB-IW10A	11/25/2024	17-22'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.2	<46	<9.2	<46	170
TB-IW11	11/1/2024	17-26'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.2	<46	<9.2	<46	420
~~TB-IW12~~	~~11/1/2024~~	~~17-26'~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.092~~	~~<0.1~~	~~<4.6~~	~~<9.3~~	~~<46~~	~~<9.3~~	~~<46~~	~~1,400~~
TB-IW12A	11/25/2024	17-26'	<0.025	<0.049	<0.049	<0.099	<0.1	<4.9	<9.8	<49	<9.8	<49	280
TB-IW13	11/1/2024	19-26'	<0.024	<0.048	<0.048	<0.096	<0.1	<4.8	<9.8	<49	<9.8	<49	380
~~TB-IW14~~	~~11/1/2024~~	~~22-28'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.7~~	~~<48~~	~~<9.7~~	~~<48~~	~~1,500~~
TB-IW14A	11/25/2024	22-28'	<0.024	<0.049	<0.049	<0.098	<0.1	<4.9	<9.9	<50	<9.9	<50	300
~~TB-IW15~~	~~11/1/2024~~	~~14-28'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.1~~	~~<4.9~~	~~<9.5~~	~~<48~~	~~<9.5~~	~~<48~~	~~2,300~~
~~TB-IW15A~~	~~11/25/2024~~	~~14-28'~~	~~<0.024~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.7~~	~~<48~~	~~<9.7~~	~~<48~~	~~640~~
TB-IW15B	12/9/2024	14-28'	<0.020	<0.041	<0.041	<0.081	<0.1	<4.1	14	<46	14	14	460
TB-IW16	11/1/2024	14-27'	<0.023	<0.047	<0.047	<0.094	<0.1	<4.7	<9.3	<46	<9.3	<46	370
~~TB-IW17~~	~~11/1/2024~~	~~14-27'~~	~~<0.023~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.1~~	~~<4.7~~	~~<9.2~~	~~<46~~	~~<9.2~~	~~<46~~	~~1,400~~
~~TB-IW17A~~	~~11/25/2024~~	~~14-27'~~	~~<0.024~~	~~<0.048~~	~~<0.048~~	~~<0.096~~	~~<0.1~~	~~<4.8~~	~~<9.8~~	~~<49~~	~~<9.8~~	~~<49~~	~~2,000~~
TB-IW17B	12/9/2024	14-27'	<0.022	<0.043	<0.043	<0.086	<0.1	<4.3	<9.2	<46	<9.2	<46	550
~~TB-IW18~~	~~11/1/2024~~	~~14-27'~~	~~<0.024~~	~~<0.049~~	~~<0.049~~	~~<0.097~~	~~<0.1~~	~~<4.9~~	~~<9.8~~	~~<49~~	~~<9.8~~	~~<49~~	~~2,000~~
TB-IW18	11/25/2024	14-27'	<0.023	<0.046	<0.046	<0.092	<0.1	<4.6	<9.4	<47	<9.4	<47	240
TB-IW19	11/1/2024	17-26'	<0.024	<0.047	<0.047	<0.095	<0.1	<4.7	<9.8	<49	<9.8	<49	210
TB-IW20	11/1/2024	17-26'	<0.025	<0.050	<0.050	<0.10	<0.1	<5.0	<9.4	<47	<9.4	<47	440
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW <50')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**---**	**100**	**600**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**10[3]**				**50[3]**					**100[3]**	**600**

Notes:

1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.
2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.
3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document *Procedures for the Implementation of Digital C-141 and the release rule (19.15.29 NMAC)* dated December 1, 2023.

ATTACHMENT 1 – PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPH NO. 1 – A general view of the Tank Battery Area during the initial excavation activities in July, 2024. The view is towards the northwest.



PHOTOGRAPH NO. 2 – A view of the Tank Battery Area during the soil removal operations. The view is towards the northeast.



PHOTOGRAPH NO. 3 – A view of the Tank Battery Area upon completion. The view is towards the northeast.



PHOTOGRAPH NO. 4 – An additional view of the Tank Battery Area upon completion in 2024. The view is towards the southeast.

ATTACHMENT 2 – LABORATORY ANALYTICAL RESULTS

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ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 8/23/2024 4:03:59 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-9936-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

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Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Andy Freeman, Business Unit Manager
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(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-9936-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-9936-1
Project/Site: Roy SWD #3

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc Job ID: 885-9936-1
Project: Roy SWD #3

Job ID: 885-9936-1 **Eurofins Albuquerque**

Job Narrative
885-9936-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/15/2024 7:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C.

Gasoline Range Organics
Method 8015D_GRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-10378 and analytical batch 885-10519 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-10594 recovered outside acceptance criteria, low biased, for Di-n-octyl phthalate (Surr). Samples with low surrogate will be re-ran. The following samples are associated TB-W12 (885-9936-18), TB-W13 (885-9936-19), TB-W14 (885-9936-20), TB-W15 (885-9936-21), TB-W16 (885-9936-22), TB-W17 (885-9936-23), TB-B23 (885-9936-24), TB-B24 (885-9936-25), TB-B25 (885-9936-26), TB-B20 (885-9936-28), TB-B10 (885-9936-29), (CCV 885-10594/14), (CCV 885-10594/26), (CCV 885-10594/38), (885-9936-A-29-C MS) and (885-9936-A-29-D MSD).

Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-10666 recovered outside acceptance criteria, low biased, for Di-n-octyl phthalate (Surr). Samples with low surrogate will be re-extracted. The following samples are associated TB-B24 (885-9936-25), TB-B25 (885-9936-26) and (CCV 885-10666/18).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_OF_28D_PREC: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-10554 and analytical batch 885-10575 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B41

Date Collected: 08/13/24 12:32
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/15/24 14:46	08/19/24 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*35 - 166*	*08/15/24 14:46*	*08/19/24 12:36*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 14:46	08/19/24 12:36	1
Ethylbenzene	ND		0.050		mg/Kg		08/15/24 14:46	08/19/24 12:36	1
Toluene	ND		0.050		mg/Kg		08/15/24 14:46	08/19/24 12:36	1
Xylenes, Total	ND		0.099		mg/Kg		08/15/24 14:46	08/19/24 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*08/15/24 14:46*	*08/19/24 12:36*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/19/24 13:12	08/20/24 07:17	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/19/24 13:12	08/20/24 07:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*08/19/24 13:12*	*08/20/24 07:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		60		mg/Kg		08/19/24 15:11	08/19/24 21:07	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B42

Date Collected: 08/13/24 12:34
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/15/24 14:46	08/19/24 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*08/15/24 14:46*	*08/19/24 13:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 14:46	08/19/24 13:54	1
Ethylbenzene	ND		0.048		mg/Kg		08/15/24 14:46	08/19/24 13:54	1
Toluene	ND		0.048		mg/Kg		08/15/24 14:46	08/19/24 13:54	1
Xylenes, Total	ND		0.097		mg/Kg		08/15/24 14:46	08/19/24 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*08/15/24 14:46*	*08/19/24 13:54*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/19/24 13:12	08/20/24 07:41	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/19/24 13:12	08/20/24 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*78*		*62 - 134*	*08/19/24 13:12*	*08/20/24 07:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**390**		60		mg/Kg		08/19/24 15:11	08/19/24 21:19	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B43

Date Collected: 08/13/24 12:36
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		08/15/24 14:46	08/19/24 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*35 - 166*	*08/15/24 14:46*	*08/19/24 15:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/15/24 14:46	08/19/24 15:00	1
Ethylbenzene	ND		0.047		mg/Kg		08/15/24 14:46	08/19/24 15:00	1
Toluene	ND		0.047		mg/Kg		08/15/24 14:46	08/19/24 15:00	1
Xylenes, Total	ND		0.093		mg/Kg		08/15/24 14:46	08/19/24 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*08/15/24 14:46*	*08/19/24 15:00*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**24**		9.9		mg/Kg		08/19/24 13:12	08/20/24 08:29	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/19/24 13:12	08/20/24 08:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*08/19/24 13:12*	*08/20/24 08:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		08/19/24 15:11	08/19/24 21:31	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B44

Date Collected: 08/13/24 12:40
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/15/24 14:46	08/19/24 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*08/15/24 14:46*	*08/19/24 15:21*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 14:46	08/19/24 15:21	1
Ethylbenzene	ND		0.048		mg/Kg		08/15/24 14:46	08/19/24 15:21	1
Toluene	ND		0.048		mg/Kg		08/15/24 14:46	08/19/24 15:21	1
Xylenes, Total	ND		0.097		mg/Kg		08/15/24 14:46	08/19/24 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*08/15/24 14:46*	*08/19/24 15:21*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/19/24 13:12	08/20/24 08:53	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/19/24 13:12	08/20/24 08:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*08/19/24 13:12*	*08/20/24 08:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		08/19/24 16:17	08/19/24 22:08	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B46

Date Collected: 08/13/24 12:14
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/15/24 14:46	08/19/24 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*08/15/24 14:46*	*08/19/24 15:43*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 14:46	08/19/24 15:43	1
Ethylbenzene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 15:43	1
Toluene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 15:43	1
Xylenes, Total	ND		0.097		mg/Kg		08/15/24 14:46	08/19/24 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*	*08/15/24 14:46*	*08/19/24 15:43*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/19/24 13:12	08/20/24 09:17	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/19/24 13:12	08/20/24 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*08/19/24 13:12*	*08/20/24 09:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**390**		60		mg/Kg		08/19/24 16:17	08/19/24 22:45	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B5

Date Collected: 08/13/24 12:12
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/15/24 14:46	08/19/24 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*08/15/24 14:46*	*08/19/24 16:05*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 14:46	08/19/24 16:05	1
Ethylbenzene	ND		0.050		mg/Kg		08/15/24 14:46	08/19/24 16:05	1
Toluene	ND		0.050		mg/Kg		08/15/24 14:46	08/19/24 16:05	1
Xylenes, Total	ND		0.099		mg/Kg		08/15/24 14:46	08/19/24 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*08/15/24 14:46*	*08/19/24 16:05*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/19/24 13:12	08/20/24 09:41	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/19/24 13:12	08/20/24 09:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*08/19/24 13:12*	*08/20/24 09:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**330**		60		mg/Kg		08/19/24 16:17	08/19/24 22:58	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W1

Date Collected: 08/13/24 11:30
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/15/24 14:46	08/19/24 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*35 - 166*	*08/15/24 14:46*	*08/19/24 16:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 14:46	08/19/24 16:27	1
Ethylbenzene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 16:27	1
Toluene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 16:27	1
Xylenes, Total	ND		0.097		mg/Kg		08/15/24 14:46	08/19/24 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*08/15/24 14:46*	*08/19/24 16:27*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/19/24 13:12	08/20/24 10:05	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/19/24 13:12	08/20/24 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*08/19/24 13:12*	*08/20/24 10:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		08/19/24 16:17	08/19/24 23:10	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W2

Date Collected: 08/13/24 11:32
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/15/24 14:46	08/19/24 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*35 - 166*	*08/15/24 14:46*	*08/19/24 16:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 14:46	08/19/24 16:49	1
Ethylbenzene	ND		0.048		mg/Kg		08/15/24 14:46	08/19/24 16:49	1
Toluene	ND		0.048		mg/Kg		08/15/24 14:46	08/19/24 16:49	1
Xylenes, Total	ND		0.097		mg/Kg		08/15/24 14:46	08/19/24 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*48 - 145*	*08/15/24 14:46*	*08/19/24 16:49*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		08/19/24 13:12	08/20/24 10:29	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		08/19/24 13:12	08/20/24 10:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*08/19/24 13:12*	*08/20/24 10:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		08/19/24 16:17	08/19/24 23:23	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W3

Date Collected: 08/13/24 11:34
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/15/24 14:46	08/19/24 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*35 - 166*	*08/15/24 14:46*	*08/19/24 17:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 14:46	08/19/24 17:11	1
Ethylbenzene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 17:11	1
Toluene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 17:11	1
Xylenes, Total	ND		0.098		mg/Kg		08/15/24 14:46	08/19/24 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*	*08/15/24 14:46*	*08/19/24 17:11*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/19/24 13:12	08/20/24 10:53	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/19/24 13:12	08/20/24 10:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*08/19/24 13:12*	*08/20/24 10:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		60		mg/Kg		08/19/24 16:17	08/19/24 23:35	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W4

Date Collected: 08/13/24 11:36
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/15/24 14:46	08/19/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*08/15/24 14:46*	*08/19/24 17:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 14:46	08/19/24 17:33	1
Ethylbenzene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 17:33	1
Toluene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 17:33	1
Xylenes, Total	ND		0.098		mg/Kg		08/15/24 14:46	08/19/24 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*08/15/24 14:46*	*08/19/24 17:33*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**44**		9.6		mg/Kg		08/19/24 15:30	08/20/24 14:32	1
Motor Oil Range Organics [C28-C40]	**60**		48		mg/Kg		08/19/24 15:30	08/20/24 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*08/19/24 15:30*	*08/20/24 14:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		08/20/24 10:36	08/20/24 18:53	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W5

Date Collected: 08/13/24 11:38
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/15/24 14:46	08/19/24 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*08/15/24 14:46*	*08/19/24 18:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 14:46	08/19/24 18:17	1
Ethylbenzene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 18:17	1
Toluene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 18:17	1
Xylenes, Total	ND		0.098		mg/Kg		08/15/24 14:46	08/19/24 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*08/15/24 14:46*	*08/19/24 18:17*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		08/19/24 15:30	08/20/24 14:45	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/19/24 15:30	08/20/24 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*72*		*62 - 134*	*08/19/24 15:30*	*08/20/24 14:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**600**		60		mg/Kg		08/20/24 10:36	08/20/24 19:08	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W6

Date Collected: 08/13/24 11:40
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-12

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/15/24 14:46	08/19/24 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*08/15/24 14:46*	*08/19/24 18:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 14:46	08/19/24 18:39	1
Ethylbenzene	ND		0.048		mg/Kg		08/15/24 14:46	08/19/24 18:39	1
Toluene	ND		0.048		mg/Kg		08/15/24 14:46	08/19/24 18:39	1
Xylenes, Total	ND		0.097		mg/Kg		08/15/24 14:46	08/19/24 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*08/15/24 14:46*	*08/19/24 18:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**45**		9.1		mg/Kg		08/19/24 15:30	08/20/24 14:59	1
Motor Oil Range Organics [C28-C40]	**56**		45		mg/Kg		08/19/24 15:30	08/20/24 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*124*		*62 - 134*	*08/19/24 15:30*	*08/20/24 14:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		08/20/24 10:36	08/20/24 20:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W7

Date Collected: 08/13/24 11:42
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-13

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/15/24 14:46	08/19/24 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*08/15/24 14:46*	*08/19/24 19:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 14:46	08/19/24 19:01	1
Ethylbenzene	ND		0.048		mg/Kg		08/15/24 14:46	08/19/24 19:01	1
Toluene	ND		0.048		mg/Kg		08/15/24 14:46	08/19/24 19:01	1
Xylenes, Total	ND		0.097		mg/Kg		08/15/24 14:46	08/19/24 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*08/15/24 14:46*	*08/19/24 19:01*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/19/24 15:30	08/20/24 15:12	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/19/24 15:30	08/20/24 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*08/19/24 15:30*	*08/20/24 15:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		08/20/24 10:36	08/20/24 21:09	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W8

Date Collected: 08/13/24 11:46
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		08/15/24 14:46	08/19/24 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*35 - 166*	*08/15/24 14:46*	*08/19/24 19:23*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/15/24 14:46	08/19/24 19:23	1
Ethylbenzene	ND		0.046		mg/Kg		08/15/24 14:46	08/19/24 19:23	1
Toluene	ND		0.046		mg/Kg		08/15/24 14:46	08/19/24 19:23	1
Xylenes, Total	ND		0.093		mg/Kg		08/15/24 14:46	08/19/24 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*08/15/24 14:46*	*08/19/24 19:23*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**98**		8.7		mg/Kg		08/19/24 15:30	08/20/24 18:52	1
Motor Oil Range Organics [C28-C40]	**120**		43		mg/Kg		08/19/24 15:30	08/20/24 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*109*		*62 - 134*	*08/19/24 15:30*	*08/20/24 18:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**440**		60		mg/Kg		08/20/24 10:36	08/20/24 21:24	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W9

Date Collected: 08/13/24 11:48
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-15

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		08/15/24 14:46	08/19/24 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*08/15/24 14:46*	*08/19/24 19:45*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/15/24 14:46	08/19/24 19:45	1
Ethylbenzene	ND		0.046		mg/Kg		08/15/24 14:46	08/19/24 19:45	1
Toluene	ND		0.046		mg/Kg		08/15/24 14:46	08/19/24 19:45	1
Xylenes, Total	ND		0.092		mg/Kg		08/15/24 14:46	08/19/24 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*08/15/24 14:46*	*08/19/24 19:45*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/19/24 15:30	08/20/24 15:26	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/19/24 15:30	08/20/24 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*75*		*62 - 134*	*08/19/24 15:30*	*08/20/24 15:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**550**		60		mg/Kg		08/20/24 10:36	08/20/24 21:39	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W10

Date Collected: 08/13/24 11:54
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-16

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		08/15/24 14:46	08/19/24 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*08/15/24 14:46*	*08/19/24 20:07*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/15/24 14:46	08/19/24 20:07	1
Ethylbenzene	ND		0.046		mg/Kg		08/15/24 14:46	08/19/24 20:07	1
Toluene	ND		0.046		mg/Kg		08/15/24 14:46	08/19/24 20:07	1
Xylenes, Total	ND		0.092		mg/Kg		08/15/24 14:46	08/19/24 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*08/15/24 14:46*	*08/19/24 20:07*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		08/19/24 15:30	08/20/24 15:40	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/19/24 15:30	08/20/24 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*08/19/24 15:30*	*08/20/24 15:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**550**		60		mg/Kg		08/20/24 10:36	08/20/24 21:55	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W11

Date Collected: 08/13/24 11:56
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-17

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/15/24 14:46	08/19/24 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*08/15/24 14:46*	*08/19/24 20:28*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 14:46	08/19/24 20:28	1
Ethylbenzene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 20:28	1
Toluene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 20:28	1
Xylenes, Total	ND		0.098		mg/Kg		08/15/24 14:46	08/19/24 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*08/15/24 14:46*	*08/19/24 20:28*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		08/21/24 12:41	08/21/24 18:44	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/21/24 12:41	08/21/24 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*08/21/24 12:41*	*08/21/24 18:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97**		60		mg/Kg		08/20/24 10:36	08/20/24 22:10	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W12

Date Collected: 08/13/24 12:00
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-18

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/15/24 14:46	08/19/24 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*08/15/24 14:46*	*08/19/24 20:50*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 14:46	08/19/24 20:50	1
Ethylbenzene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 20:50	1
Toluene	ND		0.049		mg/Kg		08/15/24 14:46	08/19/24 20:50	1
Xylenes, Total	ND		0.098		mg/Kg		08/15/24 14:46	08/19/24 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*08/15/24 14:46*	*08/19/24 20:50*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		08/19/24 15:30	08/21/24 15:14	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/19/24 15:30	08/21/24 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*77*		*62 - 134*	*08/19/24 15:30*	*08/21/24 15:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93**		60		mg/Kg		08/20/24 10:36	08/20/24 22:55	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W13

Date Collected: 08/13/24 12:02
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-19

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		08/15/24 14:46	08/19/24 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*35 - 166*	*08/15/24 14:46*	*08/19/24 21:12*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/15/24 14:46	08/19/24 21:12	1
Ethylbenzene	ND		0.046		mg/Kg		08/15/24 14:46	08/19/24 21:12	1
Toluene	ND		0.046		mg/Kg		08/15/24 14:46	08/19/24 21:12	1
Xylenes, Total	ND		0.093		mg/Kg		08/15/24 14:46	08/19/24 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*08/15/24 14:46*	*08/19/24 21:12*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/19/24 15:30	08/20/24 16:34	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/19/24 15:30	08/20/24 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*77*		*62 - 134*	*08/19/24 15:30*	*08/20/24 16:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1600**		60		mg/Kg		08/20/24 10:36	08/20/24 23:10	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W14

Date Collected: 08/13/24 12:04
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-20

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/15/24 14:46	08/19/24 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*08/15/24 14:46*	*08/19/24 21:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 14:46	08/19/24 21:34	1
Ethylbenzene	ND		0.048		mg/Kg		08/15/24 14:46	08/19/24 21:34	1
Toluene	ND		0.048		mg/Kg		08/15/24 14:46	08/19/24 21:34	1
Xylenes, Total	ND		0.095		mg/Kg		08/15/24 14:46	08/19/24 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*08/15/24 14:46*	*08/19/24 21:34*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		08/19/24 15:30	08/20/24 16:47	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/19/24 15:30	08/20/24 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*67*		*62 - 134*	*08/19/24 15:30*	*08/20/24 16:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1700**		60		mg/Kg		08/20/24 10:36	08/20/24 23:26	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W15

Date Collected: 08/13/24 12:06
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-21

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND	F1	4.8		mg/Kg		08/15/24 17:13	08/16/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*08/15/24 17:13*	*08/16/24 19:32*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 17:13	08/16/24 19:32	1
Ethylbenzene	ND		0.048		mg/Kg		08/15/24 17:13	08/16/24 19:32	1
Toluene	ND		0.048		mg/Kg		08/15/24 17:13	08/16/24 19:32	1
Xylenes, Total	ND		0.095		mg/Kg		08/15/24 17:13	08/16/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*08/15/24 17:13*	*08/16/24 19:32*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		08/22/24 10:14	08/22/24 13:24	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/22/24 10:14	08/22/24 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*08/22/24 10:14*	*08/22/24 13:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81**		60		mg/Kg		08/20/24 10:36	08/20/24 23:41	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W16

Date Collected: 08/13/24 12:08
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-22

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/15/24 17:13	08/16/24 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*08/15/24 17:13*	*08/16/24 20:38*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 17:13	08/16/24 20:38	1
Ethylbenzene	ND		0.049		mg/Kg		08/15/24 17:13	08/16/24 20:38	1
Toluene	ND		0.049		mg/Kg		08/15/24 17:13	08/16/24 20:38	1
Xylenes, Total	ND		0.099		mg/Kg		08/15/24 17:13	08/16/24 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*08/15/24 17:13*	*08/16/24 20:38*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/19/24 15:30	08/20/24 17:13	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/19/24 15:30	08/20/24 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*64*		*62 - 134*	*08/19/24 15:30*	*08/20/24 17:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**540**		60		mg/Kg		08/20/24 10:36	08/20/24 23:56	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W17

Date Collected: 08/13/24 12:10
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-23

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/15/24 17:13	08/16/24 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*08/15/24 17:13*	*08/16/24 21:43*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 17:13	08/16/24 21:43	1
Ethylbenzene	ND		0.048		mg/Kg		08/15/24 17:13	08/16/24 21:43	1
Toluene	ND		0.048		mg/Kg		08/15/24 17:13	08/16/24 21:43	1
Xylenes, Total	ND		0.096		mg/Kg		08/15/24 17:13	08/16/24 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*08/15/24 17:13*	*08/16/24 21:43*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/19/24 15:30	08/21/24 16:02	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/19/24 15:30	08/21/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*69*		*62 - 134*	*08/19/24 15:30*	*08/21/24 16:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000**		60		mg/Kg		08/20/24 10:36	08/21/24 00:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B23

Date Collected: 08/13/24 12:24
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-24

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		08/15/24 17:13	08/16/24 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*35 - 166*	*08/15/24 17:13*	*08/16/24 22:05*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		08/15/24 17:13	08/16/24 22:05	1
Ethylbenzene	ND		0.046		mg/Kg		08/15/24 17:13	08/16/24 22:05	1
Toluene	ND		0.046		mg/Kg		08/15/24 17:13	08/16/24 22:05	1
Xylenes, Total	ND		0.092		mg/Kg		08/15/24 17:13	08/16/24 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*08/15/24 17:13*	*08/16/24 22:05*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/19/24 15:30	08/21/24 16:26	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/19/24 15:30	08/21/24 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*08/19/24 15:30*	*08/21/24 16:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**780**		60		mg/Kg		08/20/24 10:36	08/21/24 00:26	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B24

Date Collected: 08/13/24 12:26
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-25

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/15/24 17:13	08/16/24 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*08/15/24 17:13*	*08/16/24 22:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 17:13	08/16/24 22:27	1
Ethylbenzene	ND		0.048		mg/Kg		08/15/24 17:13	08/16/24 22:27	1
Toluene	ND		0.048		mg/Kg		08/15/24 17:13	08/16/24 22:27	1
Xylenes, Total	ND		0.096		mg/Kg		08/15/24 17:13	08/16/24 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*08/15/24 17:13*	*08/16/24 22:27*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/19/24 15:30	08/21/24 17:14	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/19/24 15:30	08/21/24 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*65*		*62 - 134*	*08/19/24 15:30*	*08/21/24 17:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**440**		60		mg/Kg		08/20/24 10:36	08/21/24 00:41	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B25

Date Collected: 08/13/24 12:30
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-26

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/15/24 17:13	08/16/24 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*35 - 166*	*08/15/24 17:13*	*08/16/24 22:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 17:13	08/16/24 22:49	1
Ethylbenzene	ND		0.048		mg/Kg		08/15/24 17:13	08/16/24 22:49	1
Toluene	ND		0.048		mg/Kg		08/15/24 17:13	08/16/24 22:49	1
Xylenes, Total	ND		0.095		mg/Kg		08/15/24 17:13	08/16/24 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*08/15/24 17:13*	*08/16/24 22:49*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		08/19/24 15:30	08/21/24 17:38	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/19/24 15:30	08/21/24 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*08/19/24 15:30*	*08/21/24 17:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		60		mg/Kg		08/20/24 10:36	08/21/24 00:57	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B19

Date Collected: 08/13/24 12:18
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-27

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		08/15/24 17:13	08/16/24 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*08/15/24 17:13*	*08/16/24 23:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 17:13	08/16/24 23:11	1
Ethylbenzene	ND		0.048		mg/Kg		08/15/24 17:13	08/16/24 23:11	1
Toluene	ND		0.048		mg/Kg		08/15/24 17:13	08/16/24 23:11	1
Xylenes, Total	ND		0.097		mg/Kg		08/15/24 17:13	08/16/24 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*08/15/24 17:13*	*08/16/24 23:11*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**		9.5		mg/Kg		08/19/24 15:30	08/20/24 17:13	1
Motor Oil Range Organics [C28-C40]	**190**		48		mg/Kg		08/19/24 15:30	08/20/24 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*112*		*62 - 134*	*08/19/24 15:30*	*08/20/24 17:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**520**		60		mg/Kg		08/20/24 10:36	08/21/24 01:12	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B20

Date Collected: 08/13/24 12:20
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-28

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/15/24 17:13	08/16/24 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*35 - 166*	*08/15/24 17:13*	*08/16/24 23:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/15/24 17:13	08/16/24 23:33	1
Ethylbenzene	ND		0.049		mg/Kg		08/15/24 17:13	08/16/24 23:33	1
Toluene	ND		0.049		mg/Kg		08/15/24 17:13	08/16/24 23:33	1
Xylenes, Total	ND		0.098		mg/Kg		08/15/24 17:13	08/16/24 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*08/15/24 17:13*	*08/16/24 23:33*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		08/19/24 15:30	08/20/24 18:22	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/19/24 15:30	08/20/24 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*66*		*62 - 134*	*08/19/24 15:30*	*08/20/24 18:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		60		mg/Kg		08/20/24 10:36	08/21/24 01:57	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B10

Date Collected: 08/13/24 12:16
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-29

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		08/15/24 17:13	08/16/24 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*08/15/24 17:13*	*08/16/24 23:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 17:13	08/16/24 23:54	1
Ethylbenzene	ND		0.049		mg/Kg		08/15/24 17:13	08/16/24 23:54	1
Toluene	ND		0.049		mg/Kg		08/15/24 17:13	08/16/24 23:54	1
Xylenes, Total	ND		0.099		mg/Kg		08/15/24 17:13	08/16/24 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*08/15/24 17:13*	*08/16/24 23:54*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		08/19/24 15:30	08/20/24 18:50	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/19/24 15:30	08/20/24 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*71*		*62 - 134*	*08/19/24 15:30*	*08/20/24 18:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		60		mg/Kg		08/20/24 10:36	08/21/24 02:12	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-10365/1-A
Matrix: Solid
Analysis Batch: 10585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10365

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/15/24 14:46	08/19/24 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*35 - 166*	*08/15/24 14:46*	*08/19/24 12:14*	*1*

Lab Sample ID: LCS 885-10365/2-A
Matrix: Solid
Analysis Batch: 10585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10365

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	29.7		mg/Kg		119	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*229*		*35 - 166*

Lab Sample ID: 885-9936-1 MS
Matrix: Solid
Analysis Batch: 10585

Client Sample ID: TB-B41
Prep Type: Total/NA
Prep Batch: 10365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	29.8		mg/Kg		119	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*229*		*35 - 166*

Lab Sample ID: 885-9936-1 MSD
Matrix: Solid
Analysis Batch: 10585

Client Sample ID: TB-B41
Prep Type: Total/NA
Prep Batch: 10365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.8	26.2		mg/Kg		106	70 - 130	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*230*		*35 - 166*

Lab Sample ID: MB 885-10378/1-A
Matrix: Solid
Analysis Batch: 10519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10378

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		08/15/24 17:13	08/16/24 19:10	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 885-10378/1-A
Matrix: Solid
Analysis Batch: 10519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10378

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166	08/15/24 17:13	08/16/24 19:10	1

Lab Sample ID: LCS 885-10378/2-A
Matrix: Solid
Analysis Batch: 10519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10378

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	28.4		mg/Kg		114	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	224		35 - 166

Lab Sample ID: 885-9936-21 MS
Matrix: Solid
Analysis Batch: 10519

Client Sample ID: TB-W15
Prep Type: Total/NA
Prep Batch: 10378

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND	F1	23.7	31.7	F1	mg/Kg		134	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	253		35 - 166

Lab Sample ID: 885-9936-21 MSD
Matrix: Solid
Analysis Batch: 10519

Client Sample ID: TB-W15
Prep Type: Total/NA
Prep Batch: 10378

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND	F1	23.7	29.5		mg/Kg		125	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	234		35 - 166

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-10365/1-A
Matrix: Solid
Analysis Batch: 10587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10365

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/15/24 14:46	08/19/24 12:14	1
Ethylbenzene	ND		0.050		mg/Kg		08/15/24 14:46	08/19/24 12:14	1
Toluene	ND		0.050		mg/Kg		08/15/24 14:46	08/19/24 12:14	1
Xylenes, Total	ND		0.10		mg/Kg		08/15/24 14:46	08/19/24 12:14	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-10365/1-A
Matrix: Solid
Analysis Batch: 10587

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10365

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		48 - 145	08/15/24 14:46	08/19/24 12:14	1

Lab Sample ID: LCS 885-10365/3-A
Matrix: Solid
Analysis Batch: 10587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.03		mg/Kg		103	70 - 130
Ethylbenzene	1.00	1.03		mg/Kg		103	70 - 130
Toluene	1.00	1.03		mg/Kg		103	70 - 130
m&p-Xylene	2.00	2.04		mg/Kg		102	70 - 130
o-Xylene	1.00	1.01		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		48 - 145

Lab Sample ID: MB 885-10378/1-A
Matrix: Solid
Analysis Batch: 10522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10378

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/15/24 17:13	08/16/24 19:10	1
Ethylbenzene	ND		0.050	mg/Kg		08/15/24 17:13	08/16/24 19:10	1
Toluene	ND		0.050	mg/Kg		08/15/24 17:13	08/16/24 19:10	1
Xylenes, Total	ND		0.10	mg/Kg		08/15/24 17:13	08/16/24 19:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145	08/15/24 17:13	08/16/24 19:10	1

Lab Sample ID: LCS 885-10378/3-A
Matrix: Solid
Analysis Batch: 10522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.04		mg/Kg		104	70 - 130
Ethylbenzene	1.00	1.04		mg/Kg		104	70 - 130
Toluene	1.00	1.05		mg/Kg		105	70 - 130
m&p-Xylene	2.00	2.08		mg/Kg		104	70 - 130
o-Xylene	1.00	1.05		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		48 - 145

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-9936-22 MS
Matrix: Solid
Analysis Batch: 10522

Client Sample ID: TB-W16
Prep Type: Total/NA
Prep Batch: 10378

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.995	1.06		mg/Kg		106	70 - 130
Ethylbenzene	ND		0.995	1.09		mg/Kg		110	70 - 130
Toluene	ND		0.995	1.07		mg/Kg		107	70 - 130
m&p-Xylene	ND		1.99	2.15		mg/Kg		108	70 - 130
o-Xylene	ND		0.995	1.08		mg/Kg		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*

Lab Sample ID: 885-9936-22 MSD
Matrix: Solid
Analysis Batch: 10522

Client Sample ID: TB-W16
Prep Type: Total/NA
Prep Batch: 10378

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.997	1.01		mg/Kg		102	70 - 130	4	20
Ethylbenzene	ND		0.997	1.04		mg/Kg		105	70 - 130	4	20
Toluene	ND		0.997	1.02		mg/Kg		102	70 - 130	4	20
m&p-Xylene	ND		1.99	2.07		mg/Kg		104	70 - 130	4	20
o-Xylene	ND		0.997	1.04		mg/Kg		104	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-10517/1-A
Matrix: Solid
Analysis Batch: 10540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10517

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/19/24 13:12	08/20/24 01:14	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/19/24 13:12	08/20/24 01:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*08/19/24 13:12*	*08/20/24 01:14*	*1*

Lab Sample ID: LCS 885-10517/2-A
Matrix: Solid
Analysis Batch: 10540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10517

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	55.0		mg/Kg		110	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-9936-9 MS
Matrix: Solid
Analysis Batch: 10540

Client Sample ID: TB-W3
Prep Type: Total/NA
Prep Batch: 10517

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		48.4	53.6		mg/Kg		111	44 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*

Lab Sample ID: 885-9936-9 MSD
Matrix: Solid
Analysis Batch: 10540

Client Sample ID: TB-W3
Prep Type: Total/NA
Prep Batch: 10517

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		49.8	55.0		mg/Kg		110	44 - 136	3	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*

Lab Sample ID: MB 885-10539/1-A
Matrix: Solid
Analysis Batch: 10594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10539

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/19/24 15:30	08/20/24 14:05	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/19/24 15:30	08/20/24 14:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*08/19/24 15:30*	*08/20/24 14:05*	*1*

Lab Sample ID: LCS 885-10539/2-A
Matrix: Solid
Analysis Batch: 10594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10539

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	49.7		mg/Kg		99	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*

Lab Sample ID: 885-9936-29 MS
Matrix: Solid
Analysis Batch: 10594

Client Sample ID: TB-B10
Prep Type: Total/NA
Prep Batch: 10539

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		47.2	49.1		mg/Kg		104	44 - 136

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-9936-29 MS
Matrix: Solid
Analysis Batch: 10594

Client Sample ID: TB-B10
Prep Type: Total/NA
Prep Batch: 10539

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	72		62 - 134

Lab Sample ID: 885-9936-29 MSD
Matrix: Solid
Analysis Batch: 10594

Client Sample ID: TB-B10
Prep Type: Total/NA
Prep Batch: 10539

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		46.2	46.3		mg/Kg		100	44 - 136	6	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	64		62 - 134

Lab Sample ID: MB 885-10697/1-A
Matrix: Solid
Analysis Batch: 10682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10697

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/21/24 12:41	08/21/24 18:21	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/21/24 12:41	08/21/24 18:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134	08/21/24 12:41	08/21/24 18:21	1

Lab Sample ID: LCS 885-10697/2-A
Matrix: Solid
Analysis Batch: 10682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10697

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	46.1		mg/Kg		92	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	94		62 - 134

Lab Sample ID: MB 885-10787/1-A
Matrix: Solid
Analysis Batch: 10765

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10787

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/22/24 10:14	08/22/24 13:02	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/22/24 10:14	08/22/24 13:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88		62 - 134	08/22/24 10:14	08/22/24 13:02	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 885-10787/2-A
Matrix: Solid
Analysis Batch: 10765

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10787

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	47.1		mg/Kg		94	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-10524/1-A
Matrix: Solid
Analysis Batch: 10575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10524

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		08/19/24 14:23	08/19/24 17:37	1

Lab Sample ID: LCS 885-10524/2-A
Matrix: Solid
Analysis Batch: 10575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10524

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	27.9		mg/Kg		93	90 - 110		

Lab Sample ID: MB 885-10554/1-A
Matrix: Solid
Analysis Batch: 10575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10554

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		08/19/24 16:17	08/19/24 17:12	1

Lab Sample ID: LCS 885-10554/2-A
Matrix: Solid
Analysis Batch: 10575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10554

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.2		mg/Kg		94	90 - 110		

Lab Sample ID: 885-9936-4 MS
Matrix: Solid
Analysis Batch: 10575

Client Sample ID: TB-B44
Prep Type: Total/NA
Prep Batch: 10554

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250		29.9	173	4	mg/Kg		-255	50 - 150		

Lab Sample ID: 885-9936-4 MSD
Matrix: Solid
Analysis Batch: 10575

Client Sample ID: TB-B44
Prep Type: Total/NA
Prep Batch: 10554

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250		30.0	181	4	mg/Kg		-227	50 - 150	5	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-10592/2-A
Matrix: Solid
Analysis Batch: 10616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10592

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.8		mg/Kg		103	90 - 110		

Lab Sample ID: 885-9936-10 MS
Matrix: Solid
Analysis Batch: 10616

Client Sample ID: TB-W4
Prep Type: Total/NA
Prep Batch: 10592

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	190		29.9	209	4	mg/Kg		70	50 - 150		

Lab Sample ID: 885-9936-10 MSD
Matrix: Solid
Analysis Batch: 10616

Client Sample ID: TB-W4
Prep Type: Total/NA
Prep Batch: 10592

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	190		29.9	215	4	mg/Kg		91	50 - 150	3	20

Lab Sample ID: 885-9936-11 MS
Matrix: Solid
Analysis Batch: 10616

Client Sample ID: TB-W5
Prep Type: Total/NA
Prep Batch: 10592

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	600		29.9	630	4	mg/Kg		105	50 - 150		

Lab Sample ID: 885-9936-11 MSD
Matrix: Solid
Analysis Batch: 10616

Client Sample ID: TB-W5
Prep Type: Total/NA
Prep Batch: 10592

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	600		30.1	635	4	mg/Kg		121	50 - 150	1	20

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

GC VOA

Prep Batch: 10365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-1	TB-B41	Total/NA	Solid	5030C	
885-9936-2	TB-B42	Total/NA	Solid	5030C	
885-9936-3	TB-B43	Total/NA	Solid	5030C	
885-9936-4	TB-B44	Total/NA	Solid	5030C	
885-9936-5	TB-B46	Total/NA	Solid	5030C	
885-9936-6	TB-B5	Total/NA	Solid	5030C	
885-9936-7	TB-W1	Total/NA	Solid	5030C	
885-9936-8	TB-W2	Total/NA	Solid	5030C	
885-9936-9	TB-W3	Total/NA	Solid	5030C	
885-9936-10	TB-W4	Total/NA	Solid	5030C	
885-9936-11	TB-W5	Total/NA	Solid	5030C	
885-9936-12	TB-W6	Total/NA	Solid	5030C	
885-9936-13	TB-W7	Total/NA	Solid	5030C	
885-9936-14	TB-W8	Total/NA	Solid	5030C	
885-9936-15	TB-W9	Total/NA	Solid	5030C	
885-9936-16	TB-W10	Total/NA	Solid	5030C	
885-9936-17	TB-W11	Total/NA	Solid	5030C	
885-9936-18	TB-W12	Total/NA	Solid	5030C	
885-9936-19	TB-W13	Total/NA	Solid	5030C	
885-9936-20	TB-W14	Total/NA	Solid	5030C	
MB 885-10365/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-10365/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-10365/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-9936-1 MS	TB-B41	Total/NA	Solid	5030C	
885-9936-1 MSD	TB-B41	Total/NA	Solid	5030C	

Prep Batch: 10378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-21	TB-W15	Total/NA	Solid	5030C	
885-9936-22	TB-W16	Total/NA	Solid	5030C	
885-9936-23	TB-W17	Total/NA	Solid	5030C	
885-9936-24	TB-B23	Total/NA	Solid	5030C	
885-9936-25	TB-B24	Total/NA	Solid	5030C	
885-9936-26	TB-B25	Total/NA	Solid	5030C	
885-9936-27	TB-B19	Total/NA	Solid	5030C	
885-9936-28	TB-B20	Total/NA	Solid	5030C	
885-9936-29	TB-B10	Total/NA	Solid	5030C	
MB 885-10378/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-10378/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-10378/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-9936-21 MS	TB-W15	Total/NA	Solid	5030C	
885-9936-21 MSD	TB-W15	Total/NA	Solid	5030C	
885-9936-22 MS	TB-W16	Total/NA	Solid	5030C	
885-9936-22 MSD	TB-W16	Total/NA	Solid	5030C	

Analysis Batch: 10519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-21	TB-W15	Total/NA	Solid	8015M/D	10378
885-9936-22	TB-W16	Total/NA	Solid	8015M/D	10378
885-9936-23	TB-W17	Total/NA	Solid	8015M/D	10378
885-9936-24	TB-B23	Total/NA	Solid	8015M/D	10378

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

GC VOA (Continued)

Analysis Batch: 10519 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-25	TB-B24	Total/NA	Solid	8015M/D	10378
885-9936-26	TB-B25	Total/NA	Solid	8015M/D	10378
885-9936-27	TB-B19	Total/NA	Solid	8015M/D	10378
885-9936-28	TB-B20	Total/NA	Solid	8015M/D	10378
885-9936-29	TB-B10	Total/NA	Solid	8015M/D	10378
MB 885-10378/1-A	Method Blank	Total/NA	Solid	8015M/D	10378
LCS 885-10378/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10378
885-9936-21 MS	TB-W15	Total/NA	Solid	8015M/D	10378
885-9936-21 MSD	TB-W15	Total/NA	Solid	8015M/D	10378

Analysis Batch: 10522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-21	TB-W15	Total/NA	Solid	8021B	10378
885-9936-22	TB-W16	Total/NA	Solid	8021B	10378
885-9936-23	TB-W17	Total/NA	Solid	8021B	10378
885-9936-24	TB-B23	Total/NA	Solid	8021B	10378
885-9936-25	TB-B24	Total/NA	Solid	8021B	10378
885-9936-26	TB-B25	Total/NA	Solid	8021B	10378
885-9936-27	TB-B19	Total/NA	Solid	8021B	10378
885-9936-28	TB-B20	Total/NA	Solid	8021B	10378
885-9936-29	TB-B10	Total/NA	Solid	8021B	10378
MB 885-10378/1-A	Method Blank	Total/NA	Solid	8021B	10378
LCS 885-10378/3-A	Lab Control Sample	Total/NA	Solid	8021B	10378
885-9936-22 MS	TB-W16	Total/NA	Solid	8021B	10378
885-9936-22 MSD	TB-W16	Total/NA	Solid	8021B	10378

Analysis Batch: 10585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-1	TB-B41	Total/NA	Solid	8015M/D	10365
885-9936-2	TB-B42	Total/NA	Solid	8015M/D	10365
885-9936-3	TB-B43	Total/NA	Solid	8015M/D	10365
885-9936-4	TB-B44	Total/NA	Solid	8015M/D	10365
885-9936-5	TB-B46	Total/NA	Solid	8015M/D	10365
885-9936-6	TB-B5	Total/NA	Solid	8015M/D	10365
885-9936-7	TB-W1	Total/NA	Solid	8015M/D	10365
885-9936-8	TB-W2	Total/NA	Solid	8015M/D	10365
885-9936-9	TB-W3	Total/NA	Solid	8015M/D	10365
885-9936-10	TB-W4	Total/NA	Solid	8015M/D	10365
885-9936-11	TB-W5	Total/NA	Solid	8015M/D	10365
885-9936-12	TB-W6	Total/NA	Solid	8015M/D	10365
885-9936-13	TB-W7	Total/NA	Solid	8015M/D	10365
885-9936-14	TB-W8	Total/NA	Solid	8015M/D	10365
885-9936-15	TB-W9	Total/NA	Solid	8015M/D	10365
885-9936-16	TB-W10	Total/NA	Solid	8015M/D	10365
885-9936-17	TB-W11	Total/NA	Solid	8015M/D	10365
885-9936-18	TB-W12	Total/NA	Solid	8015M/D	10365
885-9936-19	TB-W13	Total/NA	Solid	8015M/D	10365
885-9936-20	TB-W14	Total/NA	Solid	8015M/D	10365
MB 885-10365/1-A	Method Blank	Total/NA	Solid	8015M/D	10365
LCS 885-10365/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10365
885-9936-1 MS	TB-B41	Total/NA	Solid	8015M/D	10365

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

GC VOA (Continued)

Analysis Batch: 10585 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-1 MSD	TB-B41	Total/NA	Solid	8015M/D	10365

Analysis Batch: 10587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-1	TB-B41	Total/NA	Solid	8021B	10365
885-9936-2	TB-B42	Total/NA	Solid	8021B	10365
885-9936-3	TB-B43	Total/NA	Solid	8021B	10365
885-9936-4	TB-B44	Total/NA	Solid	8021B	10365
885-9936-5	TB-B46	Total/NA	Solid	8021B	10365
885-9936-6	TB-B5	Total/NA	Solid	8021B	10365
885-9936-7	TB-W1	Total/NA	Solid	8021B	10365
885-9936-8	TB-W2	Total/NA	Solid	8021B	10365
885-9936-9	TB-W3	Total/NA	Solid	8021B	10365
885-9936-10	TB-W4	Total/NA	Solid	8021B	10365
885-9936-11	TB-W5	Total/NA	Solid	8021B	10365
885-9936-12	TB-W6	Total/NA	Solid	8021B	10365
885-9936-13	TB-W7	Total/NA	Solid	8021B	10365
885-9936-14	TB-W8	Total/NA	Solid	8021B	10365
885-9936-15	TB-W9	Total/NA	Solid	8021B	10365
885-9936-16	TB-W10	Total/NA	Solid	8021B	10365
885-9936-17	TB-W11	Total/NA	Solid	8021B	10365
885-9936-18	TB-W12	Total/NA	Solid	8021B	10365
885-9936-19	TB-W13	Total/NA	Solid	8021B	10365
885-9936-20	TB-W14	Total/NA	Solid	8021B	10365
MB 885-10365/1-A	Method Blank	Total/NA	Solid	8021B	10365
LCS 885-10365/3-A	Lab Control Sample	Total/NA	Solid	8021B	10365

GC Semi VOA

Prep Batch: 10517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-1	TB-B41	Total/NA	Solid	SHAKE	
885-9936-2	TB-B42	Total/NA	Solid	SHAKE	
885-9936-3	TB-B43	Total/NA	Solid	SHAKE	
885-9936-4	TB-B44	Total/NA	Solid	SHAKE	
885-9936-5	TB-B46	Total/NA	Solid	SHAKE	
885-9936-6	TB-B5	Total/NA	Solid	SHAKE	
885-9936-7	TB-W1	Total/NA	Solid	SHAKE	
885-9936-8	TB-W2	Total/NA	Solid	SHAKE	
885-9936-9	TB-W3	Total/NA	Solid	SHAKE	
MB 885-10517/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-10517/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-9936-9 MS	TB-W3	Total/NA	Solid	SHAKE	
885-9936-9 MSD	TB-W3	Total/NA	Solid	SHAKE	

Prep Batch: 10539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-10	TB-W4	Total/NA	Solid	SHAKE	
885-9936-11	TB-W5	Total/NA	Solid	SHAKE	
885-9936-12	TB-W6	Total/NA	Solid	SHAKE	
885-9936-13	TB-W7	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

GC Semi VOA (Continued)

Prep Batch: 10539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-14	TB-W8	Total/NA	Solid	SHAKE	
885-9936-15	TB-W9	Total/NA	Solid	SHAKE	
885-9936-16	TB-W10	Total/NA	Solid	SHAKE	
885-9936-18	TB-W12	Total/NA	Solid	SHAKE	
885-9936-19	TB-W13	Total/NA	Solid	SHAKE	
885-9936-20	TB-W14	Total/NA	Solid	SHAKE	
885-9936-22	TB-W16	Total/NA	Solid	SHAKE	
885-9936-23	TB-W17	Total/NA	Solid	SHAKE	
885-9936-24	TB-B23	Total/NA	Solid	SHAKE	
885-9936-25	TB-B24	Total/NA	Solid	SHAKE	
885-9936-26	TB-B25	Total/NA	Solid	SHAKE	
885-9936-27	TB-B19	Total/NA	Solid	SHAKE	
885-9936-28	TB-B20	Total/NA	Solid	SHAKE	
885-9936-29	TB-B10	Total/NA	Solid	SHAKE	
MB 885-10539/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-10539/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-9936-29 MS	TB-B10	Total/NA	Solid	SHAKE	
885-9936-29 MSD	TB-B10	Total/NA	Solid	SHAKE	

Analysis Batch: 10540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-1	TB-B41	Total/NA	Solid	8015M/D	10517
885-9936-2	TB-B42	Total/NA	Solid	8015M/D	10517
885-9936-3	TB-B43	Total/NA	Solid	8015M/D	10517
885-9936-4	TB-B44	Total/NA	Solid	8015M/D	10517
885-9936-5	TB-B46	Total/NA	Solid	8015M/D	10517
885-9936-6	TB-B5	Total/NA	Solid	8015M/D	10517
885-9936-7	TB-W1	Total/NA	Solid	8015M/D	10517
885-9936-8	TB-W2	Total/NA	Solid	8015M/D	10517
885-9936-9	TB-W3	Total/NA	Solid	8015M/D	10517
MB 885-10517/1-A	Method Blank	Total/NA	Solid	8015M/D	10517
LCS 885-10517/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10517
885-9936-9 MS	TB-W3	Total/NA	Solid	8015M/D	10517
885-9936-9 MSD	TB-W3	Total/NA	Solid	8015M/D	10517

Analysis Batch: 10594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-10	TB-W4	Total/NA	Solid	8015M/D	10539
885-9936-11	TB-W5	Total/NA	Solid	8015M/D	10539
885-9936-12	TB-W6	Total/NA	Solid	8015M/D	10539
885-9936-13	TB-W7	Total/NA	Solid	8015M/D	10539
885-9936-15	TB-W9	Total/NA	Solid	8015M/D	10539
885-9936-16	TB-W10	Total/NA	Solid	8015M/D	10539
885-9936-19	TB-W13	Total/NA	Solid	8015M/D	10539
885-9936-20	TB-W14	Total/NA	Solid	8015M/D	10539
885-9936-22	TB-W16	Total/NA	Solid	8015M/D	10539
885-9936-28	TB-B20	Total/NA	Solid	8015M/D	10539
885-9936-29	TB-B10	Total/NA	Solid	8015M/D	10539
MB 885-10539/1-A	Method Blank	Total/NA	Solid	8015M/D	10539
LCS 885-10539/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10539
885-9936-29 MS	TB-B10	Total/NA	Solid	8015M/D	10539

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

GC Semi VOA (Continued)

Analysis Batch: 10594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-29 MSD	TB-B10	Total/NA	Solid	8015M/D	10539

Analysis Batch: 10596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-14	TB-W8	Total/NA	Solid	8015M/D	10539
885-9936-27	TB-B19	Total/NA	Solid	8015M/D	10539

Analysis Batch: 10666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-18	TB-W12	Total/NA	Solid	8015M/D	10539
885-9936-23	TB-W17	Total/NA	Solid	8015M/D	10539
885-9936-24	TB-B23	Total/NA	Solid	8015M/D	10539
885-9936-25	TB-B24	Total/NA	Solid	8015M/D	10539
885-9936-26	TB-B25	Total/NA	Solid	8015M/D	10539

Analysis Batch: 10682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-17	TB-W11	Total/NA	Solid	8015M/D	10697
MB 885-10697/1-A	Method Blank	Total/NA	Solid	8015M/D	10697
LCS 885-10697/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10697

Prep Batch: 10697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-17	TB-W11	Total/NA	Solid	SHAKE	
MB 885-10697/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-10697/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 10765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-21	TB-W15	Total/NA	Solid	8015M/D	10787
MB 885-10787/1-A	Method Blank	Total/NA	Solid	8015M/D	10787
LCS 885-10787/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	10787

Prep Batch: 10787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-21	TB-W15	Total/NA	Solid	SHAKE	
MB 885-10787/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-10787/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 10524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-1	TB-B41	Total/NA	Solid	300_Prep	
885-9936-2	TB-B42	Total/NA	Solid	300_Prep	
885-9936-3	TB-B43	Total/NA	Solid	300_Prep	
MB 885-10524/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-10524/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

HPLC/IC

Prep Batch: 10554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-4	TB-B44	Total/NA	Solid	300_Prep	
885-9936-5	TB-B46	Total/NA	Solid	300_Prep	
885-9936-6	TB-B5	Total/NA	Solid	300_Prep	
885-9936-7	TB-W1	Total/NA	Solid	300_Prep	
885-9936-8	TB-W2	Total/NA	Solid	300_Prep	
885-9936-9	TB-W3	Total/NA	Solid	300_Prep	
MB 885-10554/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-10554/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-9936-4 MS	TB-B44	Total/NA	Solid	300_Prep	
885-9936-4 MSD	TB-B44	Total/NA	Solid	300_Prep	

Analysis Batch: 10575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-1	TB-B41	Total/NA	Solid	300.0	10524
885-9936-2	TB-B42	Total/NA	Solid	300.0	10524
885-9936-3	TB-B43	Total/NA	Solid	300.0	10524
885-9936-4	TB-B44	Total/NA	Solid	300.0	10554
885-9936-5	TB-B46	Total/NA	Solid	300.0	10554
885-9936-6	TB-B5	Total/NA	Solid	300.0	10554
885-9936-7	TB-W1	Total/NA	Solid	300.0	10554
885-9936-8	TB-W2	Total/NA	Solid	300.0	10554
885-9936-9	TB-W3	Total/NA	Solid	300.0	10554
MB 885-10524/1-A	Method Blank	Total/NA	Solid	300.0	10524
MB 885-10554/1-A	Method Blank	Total/NA	Solid	300.0	10554
LCS 885-10524/2-A	Lab Control Sample	Total/NA	Solid	300.0	10524
LCS 885-10554/2-A	Lab Control Sample	Total/NA	Solid	300.0	10554
885-9936-4 MS	TB-B44	Total/NA	Solid	300.0	10554
885-9936-4 MSD	TB-B44	Total/NA	Solid	300.0	10554

Prep Batch: 10592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-10	TB-W4	Total/NA	Solid	300_Prep	
885-9936-11	TB-W5	Total/NA	Solid	300_Prep	
885-9936-12	TB-W6	Total/NA	Solid	300_Prep	
885-9936-13	TB-W7	Total/NA	Solid	300_Prep	
885-9936-14	TB-W8	Total/NA	Solid	300_Prep	
885-9936-15	TB-W9	Total/NA	Solid	300_Prep	
885-9936-16	TB-W10	Total/NA	Solid	300_Prep	
885-9936-17	TB-W11	Total/NA	Solid	300_Prep	
885-9936-18	TB-W12	Total/NA	Solid	300_Prep	
885-9936-19	TB-W13	Total/NA	Solid	300_Prep	
885-9936-20	TB-W14	Total/NA	Solid	300_Prep	
885-9936-21	TB-W15	Total/NA	Solid	300_Prep	
885-9936-22	TB-W16	Total/NA	Solid	300_Prep	
885-9936-23	TB-W17	Total/NA	Solid	300_Prep	
885-9936-24	TB-B23	Total/NA	Solid	300_Prep	
885-9936-25	TB-B24	Total/NA	Solid	300_Prep	
885-9936-26	TB-B25	Total/NA	Solid	300_Prep	
885-9936-27	TB-B19	Total/NA	Solid	300_Prep	
885-9936-28	TB-B20	Total/NA	Solid	300_Prep	
885-9936-29	TB-B10	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

HPLC/IC (Continued)

Prep Batch: 10592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-10592/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-9936-10 MS	TB-W4	Total/NA	Solid	300_Prep	
885-9936-10 MSD	TB-W4	Total/NA	Solid	300_Prep	
885-9936-11 MS	TB-W5	Total/NA	Solid	300_Prep	
885-9936-11 MSD	TB-W5	Total/NA	Solid	300_Prep	

Analysis Batch: 10616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9936-10	TB-W4	Total/NA	Solid	300.0	10592
885-9936-11	TB-W5	Total/NA	Solid	300.0	10592
885-9936-12	TB-W6	Total/NA	Solid	300.0	10592
885-9936-13	TB-W7	Total/NA	Solid	300.0	10592
885-9936-14	TB-W8	Total/NA	Solid	300.0	10592
885-9936-15	TB-W9	Total/NA	Solid	300.0	10592
885-9936-16	TB-W10	Total/NA	Solid	300.0	10592
885-9936-17	TB-W11	Total/NA	Solid	300.0	10592
885-9936-18	TB-W12	Total/NA	Solid	300.0	10592
885-9936-19	TB-W13	Total/NA	Solid	300.0	10592
885-9936-20	TB-W14	Total/NA	Solid	300.0	10592
885-9936-21	TB-W15	Total/NA	Solid	300.0	10592
885-9936-22	TB-W16	Total/NA	Solid	300.0	10592
885-9936-23	TB-W17	Total/NA	Solid	300.0	10592
885-9936-24	TB-B23	Total/NA	Solid	300.0	10592
885-9936-25	TB-B24	Total/NA	Solid	300.0	10592
885-9936-26	TB-B25	Total/NA	Solid	300.0	10592
885-9936-27	TB-B19	Total/NA	Solid	300.0	10592
885-9936-28	TB-B20	Total/NA	Solid	300.0	10592
885-9936-29	TB-B10	Total/NA	Solid	300.0	10592
LCS 885-10592/2-A	Lab Control Sample	Total/NA	Solid	300.0	10592
885-9936-10 MS	TB-W4	Total/NA	Solid	300.0	10592
885-9936-10 MSD	TB-W4	Total/NA	Solid	300.0	10592
885-9936-11 MS	TB-W5	Total/NA	Solid	300.0	10592
885-9936-11 MSD	TB-W5	Total/NA	Solid	300.0	10592

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B41

Date Collected: 08/13/24 12:32
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 12:36
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 12:36
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 07:17
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 21:07

Client Sample ID: TB-B42

Date Collected: 08/13/24 12:34
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 13:54
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 13:54
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 07:41
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 21:19

Client Sample ID: TB-B43

Date Collected: 08/13/24 12:36
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 15:00
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 15:00
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 08:29
Total/NA	Prep	300_Prep			10524	EH	EET ALB	08/19/24 15:11
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 21:31

Client Sample ID: TB-B44

Date Collected: 08/13/24 12:40
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 15:21

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B44

Date Collected: 08/13/24 12:40
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 15:21
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 08:53
Total/NA	Prep	300_Prep			10554	EH	EET ALB	08/19/24 16:17
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 22:08

Client Sample ID: TB-B46

Date Collected: 08/13/24 12:14
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 15:43
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 15:43
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 09:17
Total/NA	Prep	300_Prep			10554	EH	EET ALB	08/19/24 16:17
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 22:45

Client Sample ID: TB-B5

Date Collected: 08/13/24 12:12
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 16:05
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 16:05
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 09:41
Total/NA	Prep	300_Prep			10554	EH	EET ALB	08/19/24 16:17
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 22:58

Client Sample ID: TB-W1

Date Collected: 08/13/24 11:30
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 16:27
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 16:27

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W1

Lab Sample ID: 885-9936-7

Date Collected: 08/13/24 11:30
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 10:05
Total/NA	Prep	300_Prep			10554	EH	EET ALB	08/19/24 16:17
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 23:10

Client Sample ID: TB-W2

Lab Sample ID: 885-9936-8

Date Collected: 08/13/24 11:32
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 16:49
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 16:49
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 10:29
Total/NA	Prep	300_Prep			10554	EH	EET ALB	08/19/24 16:17
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 23:23

Client Sample ID: TB-W3

Lab Sample ID: 885-9936-9

Date Collected: 08/13/24 11:34
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 17:11
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 17:11
Total/NA	Prep	SHAKE			10517	KR	EET ALB	08/19/24 13:12
Total/NA	Analysis	8015M/D		1	10540	KR	EET ALB	08/20/24 10:53
Total/NA	Prep	300_Prep			10554	EH	EET ALB	08/19/24 16:17
Total/NA	Analysis	300.0		20	10575	MA	EET ALB	08/19/24 23:35

Client Sample ID: TB-W4

Lab Sample ID: 885-9936-10

Date Collected: 08/13/24 11:36
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 17:33
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 17:33
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 14:32

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W4

Date Collected: 08/13/24 11:36
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 18:53

Client Sample ID: TB-W5

Date Collected: 08/13/24 11:38
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 18:17
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 18:17
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 14:45
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 19:08

Client Sample ID: TB-W6

Date Collected: 08/13/24 11:40
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 18:39
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 18:39
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 14:59
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 20:54

Client Sample ID: TB-W7

Date Collected: 08/13/24 11:42
Date Received: 08/15/24 07:50

Lab Sample ID: 885-9936-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 19:01
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 19:01
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 15:12
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 21:09

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W8

Lab Sample ID: 885-9936-14

Date Collected: 08/13/24 11:46
Date Received: 08/15/24 07:50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 19:23
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 19:23
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10596	KR	EET ALB	08/20/24 18:52
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 21:24

Client Sample ID: TB-W9

Lab Sample ID: 885-9936-15

Date Collected: 08/13/24 11:48
Date Received: 08/15/24 07:50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 19:45
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 19:45
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 15:26
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 21:39

Client Sample ID: TB-W10

Lab Sample ID: 885-9936-16

Date Collected: 08/13/24 11:54
Date Received: 08/15/24 07:50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 20:07
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 20:07
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 15:40
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 21:55

Client Sample ID: TB-W11

Lab Sample ID: 885-9936-17

Date Collected: 08/13/24 11:56
Date Received: 08/15/24 07:50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 20:28

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W11

Lab Sample ID: 885-9936-17

Date Collected: 08/13/24 11:56
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 20:28
Total/NA	Prep	SHAKE			10697	EM	EET ALB	08/21/24 12:41
Total/NA	Analysis	8015M/D		1	10682	EM	EET ALB	08/21/24 18:44
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 22:10

Client Sample ID: TB-W12

Lab Sample ID: 885-9936-18

Date Collected: 08/13/24 12:00
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 20:50
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 20:50
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10666	KR	EET ALB	08/21/24 15:14
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 22:55

Client Sample ID: TB-W13

Lab Sample ID: 885-9936-19

Date Collected: 08/13/24 12:02
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 21:12
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 21:12
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 16:34
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 23:10

Client Sample ID: TB-W14

Lab Sample ID: 885-9936-20

Date Collected: 08/13/24 12:04
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8015M/D		1	10585	AT	EET ALB	08/19/24 21:34
Total/NA	Prep	5030C			10365	JR	EET ALB	08/15/24 14:46
Total/NA	Analysis	8021B		1	10587	AT	EET ALB	08/19/24 21:34

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W14

Lab Sample ID: 885-9936-20

Date Collected: 08/13/24 12:04
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 16:47
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 23:26

Client Sample ID: TB-W15

Lab Sample ID: 885-9936-21

Date Collected: 08/13/24 12:06
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/16/24 19:32
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/16/24 19:32
Total/NA	Prep	SHAKE			10787	EM	EET ALB	08/22/24 10:14
Total/NA	Analysis	8015M/D		1	10765	EM	EET ALB	08/22/24 13:24
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 23:41

Client Sample ID: TB-W16

Lab Sample ID: 885-9936-22

Date Collected: 08/13/24 12:08
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/16/24 20:38
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/16/24 20:38
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 17:13
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/20/24 23:56

Client Sample ID: TB-W17

Lab Sample ID: 885-9936-23

Date Collected: 08/13/24 12:10
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/16/24 21:43
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/16/24 21:43
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10666	KR	EET ALB	08/21/24 16:02

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-W17

Lab Sample ID: 885-9936-23

Date Collected: 08/13/24 12:10
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/21/24 00:11

Client Sample ID: TB-B23

Lab Sample ID: 885-9936-24

Date Collected: 08/13/24 12:24
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/16/24 22:05
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/16/24 22:05
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10666	KR	EET ALB	08/21/24 16:26
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/21/24 00:26

Client Sample ID: TB-B24

Lab Sample ID: 885-9936-25

Date Collected: 08/13/24 12:26
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/16/24 22:27
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/16/24 22:27
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10666	KR	EET ALB	08/21/24 17:14
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/21/24 00:41

Client Sample ID: TB-B25

Lab Sample ID: 885-9936-26

Date Collected: 08/13/24 12:30
Matrix: Solid
Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/16/24 22:49
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/16/24 22:49
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10666	KR	EET ALB	08/21/24 17:38
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/21/24 00:57

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-9936-1

Client Sample ID: TB-B19

Lab Sample ID: 885-9936-27

Date Collected: 08/13/24 12:18

Matrix: Solid

Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/16/24 23:11
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/16/24 23:11
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10596	KR	EET ALB	08/20/24 17:13
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/21/24 01:12

Client Sample ID: TB-B20

Lab Sample ID: 885-9936-28

Date Collected: 08/13/24 12:20

Matrix: Solid

Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/16/24 23:33
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/16/24 23:33
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 18:22
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/21/24 01:57

Client Sample ID: TB-B10

Lab Sample ID: 885-9936-29

Date Collected: 08/13/24 12:16

Matrix: Solid

Date Received: 08/15/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8015M/D		1	10519	AT	EET ALB	08/16/24 23:54
Total/NA	Prep	5030C			10378	JP	EET ALB	08/15/24 17:13
Total/NA	Analysis	8021B		1	10522	AT	EET ALB	08/16/24 23:54
Total/NA	Prep	SHAKE			10539	PD	EET ALB	08/19/24 15:30
Total/NA	Analysis	8015M/D		1	10594	KR	EET ALB	08/20/24 18:50
Total/NA	Prep	300_Prep			10592	KB	EET ALB	08/20/24 10:36
Total/NA	Analysis	300.0		20	10616	EH	EET ALB	08/21/24 02:12

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-9936-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other_____

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☑ **Rush** 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1 MOSO

Cooler Temp(including CF): 0.4+0.3=0.7

HALL ENVIRONMENTAL ANALYSIS LABOR

4901 Hawkins NE - Albuquerque, NM 8710[illegible]

Tel. 505-345-3975 Fax 505-345-4107

885-9936 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/13/24	1232	SOIL	TB-B41	1x4oz Jar	ICE	1	X	X	X
	1234		TB-B42			2			
	1236		TB-B43			3			
	1240		TB-B44			4			
	1214		TB-B46			5			
	1212		TB-B5			6			
	1130		TB-W1			7			
	1132		TB-W2			8			
	1134		TB-W3			9			
	1136		TB-W4			10			
	1138		TB-W5			11			
	1140		TB-W6			12			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8/14/24	830				8/14/24	830
8/14/24	1900		SCM	COURIER	8/15/24	0750

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

8/23/2024

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Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other_____

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☑ **Rush** 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.4+0.3=0.7°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/13/24	1142	SOIL	TB-W7	1x4oz Jar	ICE	13	X	X	X
"	1146	"	TB-W8	"	"	14	"	"	"
"	1148	"	TB-W9	"	"	15	"	"	"
"	1154	"	TB-W10	"	"	16	"	"	"
"	1156	"	TB-W11	"	"	17	"	"	"
"	1200	"	TB-W12	"	"	18	"	"	"
"	1202	"	TB-W13	"	"	19	"	"	"
"	1204	"	TB-W14	"	"	20	"	"	"
"	1206	"	TB-W15	"	"	21	"	"	"
"	1208	"	TB-W16	"	"	22	"	"	"
"	1210	"	TB-W17	"	"	23	"	"	"
"	1224	"	TB-B23	"	"	24	"	"	"

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/14/24	930				8/14/24	930
8/14/24	1500		SCH	COURIER	8/15/24	0750

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☒ Rush 5 DAY TAT

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☒ Yes ☐ No

# of Coolers: 1 MESO

Cooler Temp(including CF): 0.4+0.3=0.7C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/13/24	1226	SOIL	TB-B 24	1x4oz Jar	ICE	25	X	X	X
	1230		TB-B 25			26			
	1218		TB-B 19			27			
	1220		TB-B 20			28			
	1216		TB-B 10			29			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/14/24	930				8/14/24	930
8/14/24	1200		SCM	COURIER	8/15/24	0750

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

8/23/2024

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Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-9936-1

Login Number: 9936 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: McQuiston, Steven

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 9/19/2024 4:01:12 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-11527-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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9/19/2024 4:01:12 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-11527-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-11527-1
Project/Site: Roy SWD #3

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-11527-1

Job ID: 885-11527-1 Eurofins Albuquerque

Job Narrative
885-11527-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/11/2024 7:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-W4A

Date Collected: 09/09/24 09:30
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/11/24 11:28	09/14/24 07:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*09/11/24 11:28*	*09/14/24 07:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 11:28	09/14/24 07:00	1
Ethylbenzene	ND		0.049		mg/Kg		09/11/24 11:28	09/14/24 07:00	1
Toluene	ND		0.049		mg/Kg		09/11/24 11:28	09/14/24 07:00	1
Xylenes, Total	ND		0.099		mg/Kg		09/11/24 11:28	09/14/24 07:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*	*09/11/24 11:28*	*09/14/24 07:00*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/12/24 15:11	09/16/24 13:20	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/12/24 15:11	09/16/24 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*	*09/12/24 15:11*	*09/16/24 13:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**410**		60		mg/Kg		09/13/24 10:05	09/16/24 10:14	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-W6A

Date Collected: 09/09/24 09:34
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/11/24 11:28	09/14/24 07:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*09/11/24 11:28*	*09/14/24 07:22*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 11:28	09/14/24 07:22	1
Ethylbenzene	ND		0.048		mg/Kg		09/11/24 11:28	09/14/24 07:22	1
Toluene	ND		0.048		mg/Kg		09/11/24 11:28	09/14/24 07:22	1
Xylenes, Total	ND		0.096		mg/Kg		09/11/24 11:28	09/14/24 07:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/11/24 11:28*	*09/14/24 07:22*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/12/24 15:11	09/16/24 13:44	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/12/24 15:11	09/16/24 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*09/12/24 15:11*	*09/16/24 13:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71**		60		mg/Kg		09/13/24 10:05	09/16/24 10:29	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-W8A

Date Collected: 09/09/24 09:36
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/11/24 11:28	09/14/24 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*09/11/24 11:28*	*09/14/24 08:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 11:28	09/14/24 08:06	1
Ethylbenzene	ND		0.049		mg/Kg		09/11/24 11:28	09/14/24 08:06	1
Toluene	ND		0.049		mg/Kg		09/11/24 11:28	09/14/24 08:06	1
Xylenes, Total	ND		0.098		mg/Kg		09/11/24 11:28	09/14/24 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*48 - 145*	*09/11/24 11:28*	*09/14/24 08:06*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/12/24 15:11	09/16/24 14:08	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/12/24 15:11	09/16/24 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*111*		*62 - 134*	*09/12/24 15:11*	*09/16/24 14:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**	**F1 F2**	60		mg/Kg		09/13/24 10:05	09/16/24 10:44	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-W13A

Date Collected: 09/09/24 09:40
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/11/24 11:28	09/14/24 08:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*09/11/24 11:28*	*09/14/24 08:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 11:28	09/14/24 08:27	1
Ethylbenzene	ND		0.050		mg/Kg		09/11/24 11:28	09/14/24 08:27	1
Toluene	ND		0.050		mg/Kg		09/11/24 11:28	09/14/24 08:27	1
Xylenes, Total	ND		0.099		mg/Kg		09/11/24 11:28	09/14/24 08:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*48 - 145*	*09/11/24 11:28*	*09/14/24 08:27*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**35**		9.9		mg/Kg		09/12/24 15:11	09/16/24 14:32	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/12/24 15:11	09/16/24 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*109*		*62 - 134*	*09/12/24 15:11*	*09/16/24 14:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70**		60		mg/Kg		09/13/24 10:05	09/16/24 12:15	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-W14A

Date Collected: 09/09/24 09:44
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		09/11/24 11:28	09/14/24 08:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*09/11/24 11:28*	*09/14/24 08:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/11/24 11:28	09/14/24 08:49	1
Ethylbenzene	ND		0.046		mg/Kg		09/11/24 11:28	09/14/24 08:49	1
Toluene	ND		0.046		mg/Kg		09/11/24 11:28	09/14/24 08:49	1
Xylenes, Total	ND		0.093		mg/Kg		09/11/24 11:28	09/14/24 08:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*	*09/11/24 11:28*	*09/14/24 08:49*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**21**		9.6		mg/Kg		09/12/24 15:11	09/16/24 14:55	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/12/24 15:11	09/16/24 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*112*		*62 - 134*	*09/12/24 15:11*	*09/16/24 14:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/13/24 10:05	09/16/24 12:30	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-W17A

Date Collected: 09/09/24 09:46
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/11/24 11:28	09/14/24 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*09/11/24 11:28*	*09/14/24 09:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 11:28	09/14/24 09:11	1
Ethylbenzene	ND		0.049		mg/Kg		09/11/24 11:28	09/14/24 09:11	1
Toluene	ND		0.049		mg/Kg		09/11/24 11:28	09/14/24 09:11	1
Xylenes, Total	ND		0.098		mg/Kg		09/11/24 11:28	09/14/24 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*48 - 145*	*09/11/24 11:28*	*09/14/24 09:11*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/12/24 15:11	09/13/24 22:26	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/12/24 15:11	09/13/24 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*09/12/24 15:11*	*09/13/24 22:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		60		mg/Kg		09/13/24 10:05	09/16/24 12:45	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B1

Date Collected: 09/09/24 10:10
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/11/24 11:28	09/14/24 09:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*09/11/24 11:28*	*09/14/24 09:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 11:28	09/14/24 09:33	1
Ethylbenzene	ND		0.050		mg/Kg		09/11/24 11:28	09/14/24 09:33	1
Toluene	ND		0.050		mg/Kg		09/11/24 11:28	09/14/24 09:33	1
Xylenes, Total	ND		0.10		mg/Kg		09/11/24 11:28	09/14/24 09:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*48 - 145*	*09/11/24 11:28*	*09/14/24 09:33*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/12/24 15:11	09/13/24 22:39	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/12/24 15:11	09/13/24 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*121*		*62 - 134*	*09/12/24 15:11*	*09/13/24 22:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		60		mg/Kg		09/13/24 10:05	09/16/24 13:00	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B2

Date Collected: 09/09/24 10:12
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/11/24 11:28	09/14/24 09:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*09/11/24 11:28*	*09/14/24 09:55*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 11:28	09/14/24 09:55	1
Ethylbenzene	ND		0.048		mg/Kg		09/11/24 11:28	09/14/24 09:55	1
Toluene	ND		0.048		mg/Kg		09/11/24 11:28	09/14/24 09:55	1
Xylenes, Total	ND		0.097		mg/Kg		09/11/24 11:28	09/14/24 09:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*	*09/11/24 11:28*	*09/14/24 09:55*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/12/24 15:11	09/13/24 23:04	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/12/24 15:11	09/13/24 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/12/24 15:11*	*09/13/24 23:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**430**		60		mg/Kg		09/13/24 10:05	09/16/24 13:16	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B3

Date Collected: 09/09/24 10:14
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/11/24 11:28	09/14/24 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*09/11/24 11:28*	*09/14/24 10:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 11:28	09/14/24 10:17	1
Ethylbenzene	ND		0.049		mg/Kg		09/11/24 11:28	09/14/24 10:17	1
Toluene	ND		0.049		mg/Kg		09/11/24 11:28	09/14/24 10:17	1
Xylenes, Total	ND		0.098		mg/Kg		09/11/24 11:28	09/14/24 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*48 - 145*	*09/11/24 11:28*	*09/14/24 10:17*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		09/12/24 15:11	09/13/24 23:17	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/12/24 15:11	09/13/24 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*09/12/24 15:11*	*09/13/24 23:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		60		mg/Kg		09/13/24 10:05	09/16/24 13:31	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B4

Date Collected: 09/09/24 10:16
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/11/24 11:28	09/14/24 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*09/11/24 11:28*	*09/14/24 10:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 11:28	09/14/24 10:39	1
Ethylbenzene	ND		0.050		mg/Kg		09/11/24 11:28	09/14/24 10:39	1
Toluene	ND		0.050		mg/Kg		09/11/24 11:28	09/14/24 10:39	1
Xylenes, Total	ND		0.10		mg/Kg		09/11/24 11:28	09/14/24 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*48 - 145*	*09/11/24 11:28*	*09/14/24 10:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/12/24 15:11	09/13/24 23:29	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/12/24 15:11	09/13/24 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*09/12/24 15:11*	*09/13/24 23:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**700**		60		mg/Kg		09/13/24 10:05	09/16/24 13:46	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B6

Date Collected: 09/09/24 10:20
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/11/24 11:28	09/14/24 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*09/11/24 11:28*	*09/14/24 11:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 11:28	09/14/24 11:00	1
Ethylbenzene	ND		0.048		mg/Kg		09/11/24 11:28	09/14/24 11:00	1
Toluene	ND		0.048		mg/Kg		09/11/24 11:28	09/14/24 11:00	1
Xylenes, Total	ND		0.096		mg/Kg		09/11/24 11:28	09/14/24 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/11/24 11:28*	*09/14/24 11:00*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/12/24 15:11	09/13/24 23:42	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/12/24 15:11	09/13/24 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*09/12/24 15:11*	*09/13/24 23:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**350**		60		mg/Kg		09/13/24 10:05	09/16/24 14:01	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B7

Date Collected: 09/09/24 10:24
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-12

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/11/24 11:28	09/14/24 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*09/11/24 11:28*	*09/14/24 11:22*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 11:28	09/14/24 11:22	1
Ethylbenzene	ND		0.048		mg/Kg		09/11/24 11:28	09/14/24 11:22	1
Toluene	ND		0.048		mg/Kg		09/11/24 11:28	09/14/24 11:22	1
Xylenes, Total	ND		0.097		mg/Kg		09/11/24 11:28	09/14/24 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*	*09/11/24 11:28*	*09/14/24 11:22*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/12/24 15:11	09/13/24 23:54	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/12/24 15:11	09/13/24 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/12/24 15:11*	*09/13/24 23:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**380**	**F2**	60		mg/Kg		09/13/24 10:05	09/16/24 15:17	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B8

Date Collected: 09/09/24 10:26
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-13

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/11/24 13:20	09/16/24 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/11/24 13:20*	*09/16/24 23:58*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 13:20	09/16/24 23:58	1
Ethylbenzene	ND		0.048		mg/Kg		09/11/24 13:20	09/16/24 23:58	1
Toluene	ND		0.048		mg/Kg		09/11/24 13:20	09/16/24 23:58	1
Xylenes, Total	ND		0.096		mg/Kg		09/11/24 13:20	09/16/24 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*09/11/24 13:20*	*09/16/24 23:58*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/13/24 10:51	09/13/24 15:47	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/13/24 10:51	09/13/24 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*09/13/24 10:51*	*09/13/24 15:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		60		mg/Kg		09/13/24 15:01	09/13/24 16:26	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B9

Date Collected: 09/09/24 10:30
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/11/24 13:20	09/17/24 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/11/24 13:20*	*09/17/24 01:09*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 13:20	09/17/24 01:09	1
Ethylbenzene	ND		0.049		mg/Kg		09/11/24 13:20	09/17/24 01:09	1
Toluene	ND		0.049		mg/Kg		09/11/24 13:20	09/17/24 01:09	1
Xylenes, Total	ND		0.097		mg/Kg		09/11/24 13:20	09/17/24 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*09/11/24 13:20*	*09/17/24 01:09*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		09/13/24 10:51	09/13/24 16:00	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/13/24 10:51	09/13/24 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*09/13/24 10:51*	*09/13/24 16:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**380**		60		mg/Kg		09/13/24 15:01	09/13/24 16:41	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B-10A

Date Collected: 09/09/24 10:34
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-15

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/11/24 13:20	09/17/24 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*09/11/24 13:20*	*09/17/24 01:32*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/11/24 13:20	09/17/24 01:32	1
Ethylbenzene	ND		0.047		mg/Kg		09/11/24 13:20	09/17/24 01:32	1
Toluene	ND		0.047		mg/Kg		09/11/24 13:20	09/17/24 01:32	1
Xylenes, Total	ND		0.094		mg/Kg		09/11/24 13:20	09/17/24 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*09/11/24 13:20*	*09/17/24 01:32*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		09/13/24 10:51	09/13/24 16:12	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/13/24 10:51	09/13/24 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*09/13/24 10:51*	*09/13/24 16:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		60		mg/Kg		09/13/24 15:01	09/13/24 16:56	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B11

Date Collected: 09/09/24 10:36
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-16

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		09/11/24 13:20	09/17/24 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*09/11/24 13:20*	*09/17/24 01:55*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/11/24 13:20	09/17/24 01:55	1
Ethylbenzene	ND		0.046		mg/Kg		09/11/24 13:20	09/17/24 01:55	1
Toluene	ND		0.046		mg/Kg		09/11/24 13:20	09/17/24 01:55	1
Xylenes, Total	ND		0.093		mg/Kg		09/11/24 13:20	09/17/24 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*09/11/24 13:20*	*09/17/24 01:55*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/13/24 10:51	09/13/24 16:24	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/13/24 10:51	09/13/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/13/24 10:51*	*09/13/24 16:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**600**		60		mg/Kg		09/13/24 15:01	09/13/24 17:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B12

Date Collected: 09/09/24 10:38
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-17

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/11/24 13:20	09/17/24 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*09/11/24 13:20*	*09/17/24 02:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 13:20	09/17/24 02:19	1
Ethylbenzene	ND		0.049		mg/Kg		09/11/24 13:20	09/17/24 02:19	1
Toluene	ND		0.049		mg/Kg		09/11/24 13:20	09/17/24 02:19	1
Xylenes, Total	ND		0.099		mg/Kg		09/11/24 13:20	09/17/24 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*09/11/24 13:20*	*09/17/24 02:19*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/13/24 10:51	09/13/24 16:36	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/13/24 10:51	09/13/24 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/13/24 10:51*	*09/13/24 16:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**	**F2**	60		mg/Kg		09/13/24 15:01	09/13/24 17:26	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B13

Date Collected: 09/09/24 10:40
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-18

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		09/11/24 13:20	09/17/24 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/11/24 13:20*	*09/17/24 02:42*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/11/24 13:20	09/17/24 02:42	1
Ethylbenzene	ND		0.046		mg/Kg		09/11/24 13:20	09/17/24 02:42	1
Toluene	ND		0.046		mg/Kg		09/11/24 13:20	09/17/24 02:42	1
Xylenes, Total	ND		0.092		mg/Kg		09/11/24 13:20	09/17/24 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*09/11/24 13:20*	*09/17/24 02:42*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/13/24 10:51	09/13/24 16:48	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/13/24 10:51	09/13/24 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/13/24 10:51*	*09/13/24 16:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/13/24 15:01	09/13/24 18:42	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B14

Date Collected: 09/09/24 10:44
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-19

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/11/24 13:20	09/17/24 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*09/11/24 13:20*	*09/17/24 03:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 13:20	09/17/24 03:06	1
Ethylbenzene	ND		0.048		mg/Kg		09/11/24 13:20	09/17/24 03:06	1
Toluene	ND		0.048		mg/Kg		09/11/24 13:20	09/17/24 03:06	1
Xylenes, Total	ND		0.096		mg/Kg		09/11/24 13:20	09/17/24 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*09/11/24 13:20*	*09/17/24 03:06*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/13/24 10:51	09/13/24 17:00	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/13/24 10:51	09/13/24 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*09/13/24 10:51*	*09/13/24 17:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**950**		60		mg/Kg		09/13/24 15:01	09/13/24 18:57	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B15

Date Collected: 09/09/24 10:48
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-20

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/11/24 13:20	09/17/24 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*09/11/24 13:20*	*09/17/24 03:29*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 13:20	09/17/24 03:29	1
Ethylbenzene	ND		0.050		mg/Kg		09/11/24 13:20	09/17/24 03:29	1
Toluene	ND		0.050		mg/Kg		09/11/24 13:20	09/17/24 03:29	1
Xylenes, Total	ND		0.099		mg/Kg		09/11/24 13:20	09/17/24 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*09/11/24 13:20*	*09/17/24 03:29*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		09/13/24 10:51	09/13/24 17:12	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		09/13/24 10:51	09/13/24 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*09/13/24 10:51*	*09/13/24 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		60		mg/Kg		09/13/24 15:01	09/13/24 19:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B16

Date Collected: 09/09/24 10:54
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-21

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/11/24 13:20	09/17/24 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*09/11/24 13:20*	*09/17/24 03:53*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 13:20	09/17/24 03:53	1
Ethylbenzene	ND		0.049		mg/Kg		09/11/24 13:20	09/17/24 03:53	1
Toluene	ND		0.049		mg/Kg		09/11/24 13:20	09/17/24 03:53	1
Xylenes, Total	ND		0.097		mg/Kg		09/11/24 13:20	09/17/24 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*09/11/24 13:20*	*09/17/24 03:53*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/13/24 10:51	09/13/24 17:25	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/13/24 10:51	09/13/24 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*09/13/24 10:51*	*09/13/24 17:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**91**		60		mg/Kg		09/13/24 15:01	09/13/24 19:28	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B17

Date Collected: 09/09/24 10:56
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-22

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		09/11/24 13:20	09/17/24 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/11/24 13:20*	*09/17/24 04:40*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/11/24 13:20	09/17/24 04:40	1
Ethylbenzene	ND		0.046		mg/Kg		09/11/24 13:20	09/17/24 04:40	1
Toluene	ND		0.046		mg/Kg		09/11/24 13:20	09/17/24 04:40	1
Xylenes, Total	ND		0.093		mg/Kg		09/11/24 13:20	09/17/24 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*09/11/24 13:20*	*09/17/24 04:40*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/13/24 10:51	09/13/24 17:37	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/13/24 10:51	09/13/24 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*113*		*62 - 134*	*09/13/24 10:51*	*09/13/24 17:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82**		60		mg/Kg		09/13/24 15:01	09/13/24 19:43	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B18

Date Collected: 09/09/24 11:00
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-23

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/11/24 13:20	09/17/24 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*09/11/24 13:20*	*09/17/24 05:03*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 13:20	09/17/24 05:03	1
Ethylbenzene	ND		0.048		mg/Kg		09/11/24 13:20	09/17/24 05:03	1
Toluene	ND		0.048		mg/Kg		09/11/24 13:20	09/17/24 05:03	1
Xylenes, Total	ND		0.096		mg/Kg		09/11/24 13:20	09/17/24 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*09/11/24 13:20*	*09/17/24 05:03*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/13/24 10:51	09/13/24 18:03	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/13/24 10:51	09/13/24 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*09/13/24 10:51*	*09/13/24 18:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63**		60		mg/Kg		09/13/24 15:01	09/13/24 19:58	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B-19A

Date Collected: 09/09/24 11:10
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-24

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/11/24 13:20	09/17/24 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*09/11/24 13:20*	*09/17/24 05:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 13:20	09/17/24 05:26	1
Ethylbenzene	ND		0.047		mg/Kg		09/11/24 13:20	09/17/24 05:26	1
Toluene	ND		0.047		mg/Kg		09/11/24 13:20	09/17/24 05:26	1
Xylenes, Total	ND		0.094		mg/Kg		09/11/24 13:20	09/17/24 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*09/11/24 13:20*	*09/17/24 05:26*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		09/13/24 10:51	09/13/24 18:15	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/13/24 10:51	09/13/24 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*116*		*62 - 134*	*09/13/24 10:51*	*09/13/24 18:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78**		60		mg/Kg		09/13/24 15:01	09/13/24 20:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B-20A

Date Collected: 09/09/24 11:14
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-25

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/11/24 13:20	09/17/24 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*09/11/24 13:20*	*09/17/24 05:50*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 13:20	09/17/24 05:50	1
Ethylbenzene	ND		0.048		mg/Kg		09/11/24 13:20	09/17/24 05:50	1
Toluene	ND		0.048		mg/Kg		09/11/24 13:20	09/17/24 05:50	1
Xylenes, Total	ND		0.095		mg/Kg		09/11/24 13:20	09/17/24 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*09/11/24 13:20*	*09/17/24 05:50*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8		mg/Kg		09/13/24 10:51	09/13/24 18:28	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		09/13/24 10:51	09/13/24 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*09/13/24 10:51*	*09/13/24 18:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**830**		60		mg/Kg		09/13/24 15:01	09/13/24 20:28	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B21

Date Collected: 09/09/24 11:20
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-26

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/11/24 13:20	09/17/24 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*09/11/24 13:20*	*09/17/24 06:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 13:20	09/17/24 06:13	1
Ethylbenzene	ND		0.050		mg/Kg		09/11/24 13:20	09/17/24 06:13	1
Toluene	ND		0.050		mg/Kg		09/11/24 13:20	09/17/24 06:13	1
Xylenes, Total	ND		0.099		mg/Kg		09/11/24 13:20	09/17/24 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*09/11/24 13:20*	*09/17/24 06:13*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		09/13/24 10:51	09/13/24 18:41	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		09/13/24 10:51	09/13/24 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/13/24 10:51*	*09/13/24 18:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/13/24 15:01	09/13/24 21:44	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B22

Date Collected: 09/09/24 11:22
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-27

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/11/24 13:20	09/17/24 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/11/24 13:20*	*09/17/24 06:37*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 13:20	09/17/24 06:37	1
Ethylbenzene	ND		0.048		mg/Kg		09/11/24 13:20	09/17/24 06:37	1
Toluene	ND		0.048		mg/Kg		09/11/24 13:20	09/17/24 06:37	1
Xylenes, Total	ND		0.096		mg/Kg		09/11/24 13:20	09/17/24 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*09/11/24 13:20*	*09/17/24 06:37*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		09/13/24 10:51	09/13/24 18:53	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/13/24 10:51	09/13/24 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*09/13/24 10:51*	*09/13/24 18:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		60		mg/Kg		09/16/24 07:46	09/16/24 08:51	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B-23A

Date Collected: 09/09/24 11:26
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-28

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/11/24 13:20	09/17/24 07:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*09/11/24 13:20*	*09/17/24 07:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 13:20	09/17/24 07:00	1
Ethylbenzene	ND		0.049		mg/Kg		09/11/24 13:20	09/17/24 07:00	1
Toluene	ND		0.049		mg/Kg		09/11/24 13:20	09/17/24 07:00	1
Xylenes, Total	ND		0.099		mg/Kg		09/11/24 13:20	09/17/24 07:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*09/11/24 13:20*	*09/17/24 07:00*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/13/24 10:51	09/13/24 19:06	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/13/24 10:51	09/13/24 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/13/24 10:51*	*09/13/24 19:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**670**		60		mg/Kg		09/16/24 07:46	09/16/24 09:29	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B26

Date Collected: 09/09/24 11:30
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-29

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/11/24 13:20	09/17/24 07:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*09/11/24 13:20*	*09/17/24 07:24*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/11/24 13:20	09/17/24 07:24	1
Ethylbenzene	ND		0.047		mg/Kg		09/11/24 13:20	09/17/24 07:24	1
Toluene	ND		0.047		mg/Kg		09/11/24 13:20	09/17/24 07:24	1
Xylenes, Total	ND		0.093		mg/Kg		09/11/24 13:20	09/17/24 07:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*09/11/24 13:20*	*09/17/24 07:24*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/13/24 10:51	09/13/24 19:18	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/13/24 10:51	09/13/24 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/13/24 10:51*	*09/13/24 19:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		60		mg/Kg		09/16/24 07:46	09/16/24 10:08	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B27

Date Collected: 09/09/24 11:40
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-30

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/11/24 13:20	09/17/24 07:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*09/11/24 13:20*	*09/17/24 07:47*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 13:20	09/17/24 07:47	1
Ethylbenzene	ND		0.048		mg/Kg		09/11/24 13:20	09/17/24 07:47	1
Toluene	ND		0.048		mg/Kg		09/11/24 13:20	09/17/24 07:47	1
Xylenes, Total	ND		0.097		mg/Kg		09/11/24 13:20	09/17/24 07:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*09/11/24 13:20*	*09/17/24 07:47*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/13/24 10:51	09/13/24 19:31	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/13/24 10:51	09/13/24 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/13/24 10:51*	*09/13/24 19:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		09/16/24 07:46	09/16/24 10:21	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B28

Date Collected: 09/09/24 11:42
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-31

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/11/24 13:20	09/17/24 08:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*09/11/24 13:20*	*09/17/24 08:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 13:20	09/17/24 08:11	1
Ethylbenzene	ND		0.048		mg/Kg		09/11/24 13:20	09/17/24 08:11	1
Toluene	ND		0.048		mg/Kg		09/11/24 13:20	09/17/24 08:11	1
Xylenes, Total	ND		0.096		mg/Kg		09/11/24 13:20	09/17/24 08:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*09/11/24 13:20*	*09/17/24 08:11*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/13/24 10:51	09/13/24 19:43	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/13/24 10:51	09/13/24 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*09/13/24 10:51*	*09/13/24 19:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		09/16/24 07:46	09/16/24 10:59	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B29

Date Collected: 09/09/24 12:00
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-32

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/11/24 16:09	09/17/24 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*09/11/24 16:09*	*09/17/24 22:31*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 16:09	09/17/24 22:31	1
Ethylbenzene	ND		0.049		mg/Kg		09/11/24 16:09	09/17/24 22:31	1
Toluene	ND		0.049		mg/Kg		09/11/24 16:09	09/17/24 22:31	1
Xylenes, Total	ND		0.098		mg/Kg		09/11/24 16:09	09/17/24 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*48 - 145*	*09/11/24 16:09*	*09/17/24 22:31*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/13/24 13:24	09/16/24 16:07	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/13/24 13:24	09/16/24 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*09/13/24 13:24*	*09/16/24 16:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		60		mg/Kg		09/16/24 07:46	09/16/24 11:12	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B30

Date Collected: 09/09/24 12:02
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-33

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/11/24 16:09	09/17/24 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*09/11/24 16:09*	*09/17/24 23:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 16:09	09/17/24 23:41	1
Ethylbenzene	ND		0.049		mg/Kg		09/11/24 16:09	09/17/24 23:41	1
Toluene	ND		0.049		mg/Kg		09/11/24 16:09	09/17/24 23:41	1
Xylenes, Total	ND		0.099		mg/Kg		09/11/24 16:09	09/17/24 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*48 - 145*	*09/11/24 16:09*	*09/17/24 23:41*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/13/24 13:24	09/16/24 16:18	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/13/24 13:24	09/16/24 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*09/13/24 13:24*	*09/16/24 16:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		60		mg/Kg		09/16/24 07:46	09/16/24 11:25	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B31

Date Collected: 09/09/24 12:04
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-34

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		09/11/24 16:09	09/18/24 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*09/11/24 16:09*	*09/18/24 00:52*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 16:09	09/18/24 00:52	1
Ethylbenzene	ND		0.048		mg/Kg		09/11/24 16:09	09/18/24 00:52	1
Toluene	ND		0.048		mg/Kg		09/11/24 16:09	09/18/24 00:52	1
Xylenes, Total	ND		0.097		mg/Kg		09/11/24 16:09	09/18/24 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*48 - 145*	*09/11/24 16:09*	*09/18/24 00:52*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/13/24 13:24	09/16/24 16:28	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/13/24 13:24	09/16/24 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*09/13/24 13:24*	*09/16/24 16:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		61		mg/Kg		09/16/24 08:10	09/16/24 15:17	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B32

Date Collected: 09/09/24 12:06
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-35

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		09/11/24 16:09	09/18/24 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*09/11/24 16:09*	*09/18/24 01:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 16:09	09/18/24 01:15	1
Ethylbenzene	ND		0.049		mg/Kg		09/11/24 16:09	09/18/24 01:15	1
Toluene	ND		0.049		mg/Kg		09/11/24 16:09	09/18/24 01:15	1
Xylenes, Total	ND		0.099		mg/Kg		09/11/24 16:09	09/18/24 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*48 - 145*	*09/11/24 16:09*	*09/18/24 01:15*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/13/24 13:24	09/16/24 16:39	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/13/24 13:24	09/16/24 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*09/13/24 13:24*	*09/16/24 16:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		60		mg/Kg		09/16/24 08:10	09/16/24 16:22	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B33

Date Collected: 09/09/24 12:08
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-36

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/11/24 16:09	09/18/24 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*09/11/24 16:09*	*09/18/24 01:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 16:09	09/18/24 01:39	1
Ethylbenzene	ND		0.047		mg/Kg		09/11/24 16:09	09/18/24 01:39	1
Toluene	ND		0.047		mg/Kg		09/11/24 16:09	09/18/24 01:39	1
Xylenes, Total	ND		0.095		mg/Kg		09/11/24 16:09	09/18/24 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*48 - 145*	*09/11/24 16:09*	*09/18/24 01:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6		mg/Kg		09/13/24 13:24	09/16/24 16:50	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		09/13/24 13:24	09/16/24 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*09/13/24 13:24*	*09/16/24 16:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/16/24 08:10	09/16/24 17:00	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B34

Date Collected: 09/09/24 12:10
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-37

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/11/24 16:09	09/18/24 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*09/11/24 16:09*	*09/18/24 02:02*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 16:09	09/18/24 02:02	1
Ethylbenzene	ND		0.050		mg/Kg		09/11/24 16:09	09/18/24 02:02	1
Toluene	ND		0.050		mg/Kg		09/11/24 16:09	09/18/24 02:02	1
Xylenes, Total	ND		0.10		mg/Kg		09/11/24 16:09	09/18/24 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*48 - 145*	*09/11/24 16:09*	*09/18/24 02:02*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/13/24 13:24	09/16/24 17:01	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/13/24 13:24	09/16/24 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*09/13/24 13:24*	*09/16/24 17:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**500**		60		mg/Kg		09/16/24 08:10	09/16/24 17:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B35

Date Collected: 09/09/24 12:14
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-38

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/11/24 16:09	09/18/24 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*09/11/24 16:09*	*09/18/24 02:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 16:09	09/18/24 02:26	1
Ethylbenzene	ND		0.050		mg/Kg		09/11/24 16:09	09/18/24 02:26	1
Toluene	ND		0.050		mg/Kg		09/11/24 16:09	09/18/24 02:26	1
Xylenes, Total	ND		0.10		mg/Kg		09/11/24 16:09	09/18/24 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*48 - 145*	*09/11/24 16:09*	*09/18/24 02:26*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/13/24 13:24	09/16/24 17:12	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/13/24 13:24	09/16/24 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*09/13/24 13:24*	*09/16/24 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1600**		60		mg/Kg		09/16/24 08:10	09/16/24 17:26	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B36

Date Collected: 09/09/24 12:16
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-39

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		09/11/24 16:09	09/18/24 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*09/11/24 16:09*	*09/18/24 02:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/11/24 16:09	09/18/24 02:49	1
Ethylbenzene	ND		0.047		mg/Kg		09/11/24 16:09	09/18/24 02:49	1
Toluene	ND		0.047		mg/Kg		09/11/24 16:09	09/18/24 02:49	1
Xylenes, Total	ND		0.094		mg/Kg		09/11/24 16:09	09/18/24 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*48 - 145*	*09/11/24 16:09*	*09/18/24 02:49*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/13/24 13:24	09/16/24 17:22	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/13/24 13:24	09/16/24 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*09/13/24 13:24*	*09/16/24 17:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		60		mg/Kg		09/16/24 08:10	09/16/24 17:39	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B37

Date Collected: 09/09/24 12:18
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-40

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		09/11/24 16:09	09/18/24 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*09/11/24 16:09*	*09/18/24 03:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/11/24 16:09	09/18/24 03:13	1
Ethylbenzene	ND		0.046		mg/Kg		09/11/24 16:09	09/18/24 03:13	1
Toluene	ND		0.046		mg/Kg		09/11/24 16:09	09/18/24 03:13	1
Xylenes, Total	ND		0.093		mg/Kg		09/11/24 16:09	09/18/24 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*48 - 145*	*09/11/24 16:09*	*09/18/24 03:13*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		09/13/24 13:24	09/16/24 17:44	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/13/24 13:24	09/16/24 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/13/24 13:24*	*09/16/24 17:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1600**		60		mg/Kg		09/16/24 08:10	09/16/24 17:52	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-12010/1-A
Matrix: Solid
Analysis Batch: 12296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12010

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/11/24 11:28	09/14/24 02:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*09/11/24 11:28*	*09/14/24 02:17*	*1*

Lab Sample ID: LCS 885-12010/2-A
Matrix: Solid
Analysis Batch: 12296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12010

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	26.6		mg/Kg		106	70 - 130		

Lab Sample ID: MB 885-12049/1-A
Matrix: Solid
Analysis Batch: 12323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12049

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/11/24 13:20	09/16/24 22:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/11/24 13:20*	*09/16/24 22:25*	*1*

Lab Sample ID: LCS 885-12049/2-A
Matrix: Solid
Analysis Batch: 12323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12049

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.6		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*207*		*35 - 166*

Lab Sample ID: MB 885-12079/1-A
Matrix: Solid
Analysis Batch: 12422

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12079

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		09/11/24 16:09	09/17/24 22:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*09/11/24 16:09*	*09/17/24 22:08*	*1*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 885-12079/2-A
Matrix: Solid
Analysis Batch: 12422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12079

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.2		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*205*		*35 - 166*

Lab Sample ID: 885-11527-32 MS
Matrix: Solid
Analysis Batch: 12422

Client Sample ID: TB-B29
Prep Type: Total/NA
Prep Batch: 12079

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.3	21.9		mg/Kg		90	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*199*		*35 - 166*

Lab Sample ID: 885-11527-32 MSD
Matrix: Solid
Analysis Batch: 12422

Client Sample ID: TB-B29
Prep Type: Total/NA
Prep Batch: 12079

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.3	20.3		mg/Kg		84	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*192*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-12010/1-A
Matrix: Solid
Analysis Batch: 12297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12010

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 11:28	09/14/24 02:17	1
Ethylbenzene	ND		0.050		mg/Kg		09/11/24 11:28	09/14/24 02:17	1
Toluene	ND		0.050		mg/Kg		09/11/24 11:28	09/14/24 02:17	1
Xylenes, Total	ND		0.10		mg/Kg		09/11/24 11:28	09/14/24 02:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/11/24 11:28*	*09/14/24 02:17*	*1*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-12010/3-A
Matrix: Solid
Analysis Batch: 12297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12010

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.05		mg/Kg		105	70 - 130		
Ethylbenzene			1.00	1.06		mg/Kg		106	70 - 130		
Toluene			1.00	1.07		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene			2.00	2.12		mg/Kg		106	70 - 130		
o-Xylene			1.00	1.04		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*

Lab Sample ID: MB 885-12049/1-A
Matrix: Solid
Analysis Batch: 12324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12049

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 13:20	09/16/24 22:25	1
Ethylbenzene	ND		0.050		mg/Kg		09/11/24 13:20	09/16/24 22:25	1
Toluene	ND		0.050		mg/Kg		09/11/24 13:20	09/16/24 22:25	1
Xylenes, Total	ND		0.10		mg/Kg		09/11/24 13:20	09/16/24 22:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*09/11/24 13:20*	*09/16/24 22:25*	*1*

Lab Sample ID: LCS 885-12049/3-A
Matrix: Solid
Analysis Batch: 12324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12049

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.865		mg/Kg		86	70 - 130		
Ethylbenzene			1.00	0.804		mg/Kg		80	70 - 130		
Toluene			1.00	0.812		mg/Kg		81	70 - 130		
m-Xylene & p-Xylene			2.00	1.61		mg/Kg		80	70 - 130		
o-Xylene			1.00	0.768		mg/Kg		77	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*

Lab Sample ID: 885-11527-13 MS
Matrix: Solid
Analysis Batch: 12324

Client Sample ID: TB-B8
Prep Type: Total/NA
Prep Batch: 12049

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.954	0.771		mg/Kg		81	70 - 130		
Ethylbenzene	ND		0.954	0.727		mg/Kg		76	70 - 130		
Toluene	ND		0.954	0.740		mg/Kg		78	70 - 130		
m-Xylene & p-Xylene	ND		1.91	1.45		mg/Kg		75	70 - 130		
o-Xylene	ND		0.954	0.684		mg/Kg		72	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-11527-13 MS
Matrix: Solid
Analysis Batch: 12324

Client Sample ID: TB-B8
Prep Type: Total/NA
Prep Batch: 12049

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		48 - 145

Lab Sample ID: 885-11527-13 MSD
Matrix: Solid
Analysis Batch: 12324

Client Sample ID: TB-B8
Prep Type: Total/NA
Prep Batch: 12049

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.960	0.797		mg/Kg		83	70 - 130	3	20
Ethylbenzene	ND		0.960	0.737		mg/Kg		77	70 - 130	1	20
Toluene	ND		0.960	0.757		mg/Kg		79	70 - 130	2	20
m-Xylene & p-Xylene	ND		1.92	1.48		mg/Kg		76	70 - 130	2	20
o-Xylene	ND		0.960	0.710		mg/Kg		74	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		48 - 145

Lab Sample ID: MB 885-12079/1-A
Matrix: Solid
Analysis Batch: 12423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12079

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/11/24 16:09	09/17/24 22:08	1
Ethylbenzene	ND		0.050		mg/Kg		09/11/24 16:09	09/17/24 22:08	1
Toluene	ND		0.050		mg/Kg		09/11/24 16:09	09/17/24 22:08	1
Xylenes, Total	ND		0.10		mg/Kg		09/11/24 16:09	09/17/24 22:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		48 - 145	09/11/24 16:09	09/17/24 22:08	1

Lab Sample ID: LCS 885-12079/3-A
Matrix: Solid
Analysis Batch: 12423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12079

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.860		mg/Kg		86	70 - 130		
Ethylbenzene			1.00	0.801		mg/Kg		80	70 - 130		
Toluene			1.00	0.812		mg/Kg		81	70 - 130		
m-Xylene & p-Xylene			2.00	1.64		mg/Kg		82	70 - 130		
o-Xylene			1.00	0.764		mg/Kg		76	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		48 - 145

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-11527-33 MS
Matrix: Solid
Analysis Batch: 12423

Client Sample ID: TB-B30
Prep Type: Total/NA
Prep Batch: 12079

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.986	0.785		mg/Kg		80	70 - 130
Ethylbenzene	ND		0.986	0.744		mg/Kg		75	70 - 130
Toluene	ND		0.986	0.754		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	ND		1.97	1.49		mg/Kg		74	70 - 130
o-Xylene	ND		0.986	0.715		mg/Kg		73	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*

Lab Sample ID: 885-11527-33 MSD
Matrix: Solid
Analysis Batch: 12423

Client Sample ID: TB-B30
Prep Type: Total/NA
Prep Batch: 12079

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.981	0.763		mg/Kg		78	70 - 130	3	20
Ethylbenzene	ND		0.981	0.722		mg/Kg		74	70 - 130	3	20
Toluene	ND		0.981	0.736		mg/Kg		75	70 - 130	2	20
m-Xylene & p-Xylene	ND		1.96	1.47		mg/Kg		73	70 - 130	1	20
o-Xylene	ND		0.981	0.691		mg/Kg		70	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-12145/1-A
Matrix: Solid
Analysis Batch: 12209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12145

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/12/24 15:11	09/13/24 20:21	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/12/24 15:11	09/13/24 20:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*09/12/24 15:11*	*09/13/24 20:21*	*1*

Lab Sample ID: LCS 885-12145/2-A
Matrix: Solid
Analysis Batch: 12209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12145

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	56.2		mg/Kg		112	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*115*		*62 - 134*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-12222/1-A
Matrix: Solid
Analysis Batch: 12209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12222

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/13/24 10:51	09/13/24 15:11	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/13/24 10:51	09/13/24 15:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/13/24 10:51*	*09/13/24 15:11*	*1*

Lab Sample ID: LCS 885-12222/2-A
Matrix: Solid
Analysis Batch: 12209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12222

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	38.7		mg/Kg		77	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*

Lab Sample ID: 885-11527-31 MS
Matrix: Solid
Analysis Batch: 12209

Client Sample ID: TB-B28
Prep Type: Total/NA
Prep Batch: 12222

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		46.4	43.1		mg/Kg		93	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*

Lab Sample ID: 885-11527-31 MSD
Matrix: Solid
Analysis Batch: 12209

Client Sample ID: TB-B28
Prep Type: Total/NA
Prep Batch: 12222

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		49.8	43.1		mg/Kg		87	44 - 136	0	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*

Lab Sample ID: MB 885-12236/1-A
Matrix: Solid
Analysis Batch: 12287

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12236

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/13/24 13:24	09/16/24 15:45	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/13/24 13:24	09/16/24 15:45	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-12236/1-A
Matrix: Solid
Analysis Batch: 12287

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12236

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134	09/13/24 13:24	09/16/24 15:45	1

Lab Sample ID: LCS 885-12236/2-A
Matrix: Solid
Analysis Batch: 12287

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12236

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	41.6		mg/Kg		83	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	93		62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-12213/1-A
Matrix: Solid
Analysis Batch: 12227

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12213

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/13/24 10:05	09/13/24 16:10	1

Lab Sample ID: MB 885-12213/1-A
Matrix: Solid
Analysis Batch: 12355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12213

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/13/24 10:05	09/16/24 09:13	1

Lab Sample ID: LCS 885-12213/2-A
Matrix: Solid
Analysis Batch: 12355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12213

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.6		mg/Kg		102	90 - 110		

Lab Sample ID: 885-11527-3 MS
Matrix: Solid
Analysis Batch: 12355

Client Sample ID: TB-W8A
Prep Type: Total/NA
Prep Batch: 12213

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	110	F1 F2	30.2	168	F1	mg/Kg		201	50 - 150		

Lab Sample ID: 885-11527-3 MSD
Matrix: Solid
Analysis Batch: 12355

Client Sample ID: TB-W8A
Prep Type: Total/NA
Prep Batch: 12213

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	110	F1 F2	30.2	101	F1 F2	mg/Kg		-19	50 - 150	50	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-12240/1-A
Matrix: Solid
Analysis Batch: 12262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12240

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/13/24 15:01	09/13/24 15:56	1

Lab Sample ID: LCS 885-12240/2-A
Matrix: Solid
Analysis Batch: 12262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12240

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.5		mg/Kg		102	90 - 110		

Lab Sample ID: 885-11527-25 MS
Matrix: Solid
Analysis Batch: 12262

Client Sample ID: TB-B-20A
Prep Type: Total/NA
Prep Batch: 12240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	830		29.8	1020	4	mg/Kg		620	50 - 150		

Lab Sample ID: 885-11527-25 MSD
Matrix: Solid
Analysis Batch: 12262

Client Sample ID: TB-B-20A
Prep Type: Total/NA
Prep Batch: 12240

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	830		30.0	831	4	mg/Kg		-9	50 - 150	20	20

Lab Sample ID: MB 885-12269/1-A
Matrix: Solid
Analysis Batch: 12327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12269

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/16/24 07:46	09/16/24 08:19	1

Lab Sample ID: LCS 885-12269/2-A
Matrix: Solid
Analysis Batch: 12327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12269

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	32.4		mg/Kg		108	90 - 110		

Lab Sample ID: MB 885-12270/1-A
Matrix: Solid
Analysis Batch: 12327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12270

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/16/24 08:10	09/16/24 14:51	1

Lab Sample ID: LCS 885-12270/2-A
Matrix: Solid
Analysis Batch: 12327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12270

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	32.3		mg/Kg		108	90 - 110		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-11527-34 MSD
Matrix: Solid
Analysis Batch: 12327

Client Sample ID: TB-B31
Prep Type: Total/NA
Prep Batch: 12270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	290		30.1	318	4	mg/Kg		110	50 - 150	13	20

Lab Sample ID: 885-11527-35 MS
Matrix: Solid
Analysis Batch: 12327

Client Sample ID: TB-B32
Prep Type: Total/NA
Prep Batch: 12270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	290		29.7	322	4	mg/Kg		97	50 - 150

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

GC VOA

Prep Batch: 12010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-1	TB-W4A	Total/NA	Solid	5030C	
885-11527-2	TB-W6A	Total/NA	Solid	5030C	
885-11527-3	TB-W8A	Total/NA	Solid	5030C	
885-11527-4	TB-W13A	Total/NA	Solid	5030C	
885-11527-5	TB-W14A	Total/NA	Solid	5030C	
885-11527-6	TB-W17A	Total/NA	Solid	5030C	
885-11527-7	TB-B1	Total/NA	Solid	5030C	
885-11527-8	TB-B2	Total/NA	Solid	5030C	
885-11527-9	TB-B3	Total/NA	Solid	5030C	
885-11527-10	TB-B4	Total/NA	Solid	5030C	
885-11527-11	TB-B6	Total/NA	Solid	5030C	
885-11527-12	TB-B7	Total/NA	Solid	5030C	
MB 885-12010/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12010/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12010/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 12049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-13	TB-B8	Total/NA	Solid	5030C	
885-11527-14	TB-B9	Total/NA	Solid	5030C	
885-11527-15	TB-B-10A	Total/NA	Solid	5030C	
885-11527-16	TB-B11	Total/NA	Solid	5030C	
885-11527-17	TB-B12	Total/NA	Solid	5030C	
885-11527-18	TB-B13	Total/NA	Solid	5030C	
885-11527-19	TB-B14	Total/NA	Solid	5030C	
885-11527-20	TB-B15	Total/NA	Solid	5030C	
885-11527-21	TB-B16	Total/NA	Solid	5030C	
885-11527-22	TB-B17	Total/NA	Solid	5030C	
885-11527-23	TB-B18	Total/NA	Solid	5030C	
885-11527-24	TB-B-19A	Total/NA	Solid	5030C	
885-11527-25	TB-B-20A	Total/NA	Solid	5030C	
885-11527-26	TB-B21	Total/NA	Solid	5030C	
885-11527-27	TB-B22	Total/NA	Solid	5030C	
885-11527-28	TB-B-23A	Total/NA	Solid	5030C	
885-11527-29	TB-B26	Total/NA	Solid	5030C	
885-11527-30	TB-B27	Total/NA	Solid	5030C	
885-11527-31	TB-B28	Total/NA	Solid	5030C	
MB 885-12049/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12049/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12049/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-11527-13 MS	TB-B8	Total/NA	Solid	5030C	
885-11527-13 MSD	TB-B8	Total/NA	Solid	5030C	

Prep Batch: 12079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-32	TB-B29	Total/NA	Solid	5030C	
885-11527-33	TB-B30	Total/NA	Solid	5030C	
885-11527-34	TB-B31	Total/NA	Solid	5030C	
885-11527-35	TB-B32	Total/NA	Solid	5030C	
885-11527-36	TB-B33	Total/NA	Solid	5030C	
885-11527-37	TB-B34	Total/NA	Solid	5030C	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

GC VOA (Continued)

Prep Batch: 12079 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-38	TB-B35	Total/NA	Solid	5030C	
885-11527-39	TB-B36	Total/NA	Solid	5030C	
885-11527-40	TB-B37	Total/NA	Solid	5030C	
MB 885-12079/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12079/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12079/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-11527-32 MS	TB-B29	Total/NA	Solid	5030C	
885-11527-32 MSD	TB-B29	Total/NA	Solid	5030C	
885-11527-33 MS	TB-B30	Total/NA	Solid	5030C	
885-11527-33 MSD	TB-B30	Total/NA	Solid	5030C	

Analysis Batch: 12296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-1	TB-W4A	Total/NA	Solid	8015M/D	12010
885-11527-2	TB-W6A	Total/NA	Solid	8015M/D	12010
885-11527-3	TB-W8A	Total/NA	Solid	8015M/D	12010
885-11527-4	TB-W13A	Total/NA	Solid	8015M/D	12010
885-11527-5	TB-W14A	Total/NA	Solid	8015M/D	12010
885-11527-6	TB-W17A	Total/NA	Solid	8015M/D	12010
885-11527-7	TB-B1	Total/NA	Solid	8015M/D	12010
885-11527-8	TB-B2	Total/NA	Solid	8015M/D	12010
885-11527-9	TB-B3	Total/NA	Solid	8015M/D	12010
885-11527-10	TB-B4	Total/NA	Solid	8015M/D	12010
885-11527-11	TB-B6	Total/NA	Solid	8015M/D	12010
885-11527-12	TB-B7	Total/NA	Solid	8015M/D	12010
MB 885-12010/1-A	Method Blank	Total/NA	Solid	8015M/D	12010
LCS 885-12010/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12010

Analysis Batch: 12297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-1	TB-W4A	Total/NA	Solid	8021B	12010
885-11527-2	TB-W6A	Total/NA	Solid	8021B	12010
885-11527-3	TB-W8A	Total/NA	Solid	8021B	12010
885-11527-4	TB-W13A	Total/NA	Solid	8021B	12010
885-11527-5	TB-W14A	Total/NA	Solid	8021B	12010
885-11527-6	TB-W17A	Total/NA	Solid	8021B	12010
885-11527-7	TB-B1	Total/NA	Solid	8021B	12010
885-11527-8	TB-B2	Total/NA	Solid	8021B	12010
885-11527-9	TB-B3	Total/NA	Solid	8021B	12010
885-11527-10	TB-B4	Total/NA	Solid	8021B	12010
885-11527-11	TB-B6	Total/NA	Solid	8021B	12010
885-11527-12	TB-B7	Total/NA	Solid	8021B	12010
MB 885-12010/1-A	Method Blank	Total/NA	Solid	8021B	12010
LCS 885-12010/3-A	Lab Control Sample	Total/NA	Solid	8021B	12010

Analysis Batch: 12323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-13	TB-B8	Total/NA	Solid	8015M/D	12049
885-11527-14	TB-B9	Total/NA	Solid	8015M/D	12049
885-11527-15	TB-B-10A	Total/NA	Solid	8015M/D	12049
885-11527-16	TB-B11	Total/NA	Solid	8015M/D	12049

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

GC VOA (Continued)

Analysis Batch: 12323 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-17	TB-B12	Total/NA	Solid	8015M/D	12049
885-11527-18	TB-B13	Total/NA	Solid	8015M/D	12049
885-11527-19	TB-B14	Total/NA	Solid	8015M/D	12049
885-11527-20	TB-B15	Total/NA	Solid	8015M/D	12049
885-11527-21	TB-B16	Total/NA	Solid	8015M/D	12049
885-11527-22	TB-B17	Total/NA	Solid	8015M/D	12049
885-11527-23	TB-B18	Total/NA	Solid	8015M/D	12049
885-11527-24	TB-B-19A	Total/NA	Solid	8015M/D	12049
885-11527-25	TB-B-20A	Total/NA	Solid	8015M/D	12049
885-11527-26	TB-B21	Total/NA	Solid	8015M/D	12049
885-11527-27	TB-B22	Total/NA	Solid	8015M/D	12049
885-11527-28	TB-B-23A	Total/NA	Solid	8015M/D	12049
885-11527-29	TB-B26	Total/NA	Solid	8015M/D	12049
885-11527-30	TB-B27	Total/NA	Solid	8015M/D	12049
885-11527-31	TB-B28	Total/NA	Solid	8015M/D	12049
MB 885-12049/1-A	Method Blank	Total/NA	Solid	8015M/D	12049
LCS 885-12049/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12049

Analysis Batch: 12324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-13	TB-B8	Total/NA	Solid	8021B	12049
885-11527-14	TB-B9	Total/NA	Solid	8021B	12049
885-11527-15	TB-B-10A	Total/NA	Solid	8021B	12049
885-11527-16	TB-B11	Total/NA	Solid	8021B	12049
885-11527-17	TB-B12	Total/NA	Solid	8021B	12049
885-11527-18	TB-B13	Total/NA	Solid	8021B	12049
885-11527-19	TB-B14	Total/NA	Solid	8021B	12049
885-11527-20	TB-B15	Total/NA	Solid	8021B	12049
885-11527-21	TB-B16	Total/NA	Solid	8021B	12049
885-11527-22	TB-B17	Total/NA	Solid	8021B	12049
885-11527-23	TB-B18	Total/NA	Solid	8021B	12049
885-11527-24	TB-B-19A	Total/NA	Solid	8021B	12049
885-11527-25	TB-B-20A	Total/NA	Solid	8021B	12049
885-11527-26	TB-B21	Total/NA	Solid	8021B	12049
885-11527-27	TB-B22	Total/NA	Solid	8021B	12049
885-11527-28	TB-B-23A	Total/NA	Solid	8021B	12049
885-11527-29	TB-B26	Total/NA	Solid	8021B	12049
885-11527-30	TB-B27	Total/NA	Solid	8021B	12049
885-11527-31	TB-B28	Total/NA	Solid	8021B	12049
MB 885-12049/1-A	Method Blank	Total/NA	Solid	8021B	12049
LCS 885-12049/3-A	Lab Control Sample	Total/NA	Solid	8021B	12049
885-11527-13 MS	TB-B8	Total/NA	Solid	8021B	12049
885-11527-13 MSD	TB-B8	Total/NA	Solid	8021B	12049

Analysis Batch: 12422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-32	TB-B29	Total/NA	Solid	8015M/D	12079
885-11527-33	TB-B30	Total/NA	Solid	8015M/D	12079
885-11527-34	TB-B31	Total/NA	Solid	8015M/D	12079
885-11527-35	TB-B32	Total/NA	Solid	8015M/D	12079
885-11527-36	TB-B33	Total/NA	Solid	8015M/D	12079

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

GC VOA (Continued)

Analysis Batch: 12422 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-37	TB-B34	Total/NA	Solid	8015M/D	12079
885-11527-38	TB-B35	Total/NA	Solid	8015M/D	12079
885-11527-39	TB-B36	Total/NA	Solid	8015M/D	12079
885-11527-40	TB-B37	Total/NA	Solid	8015M/D	12079
MB 885-12079/1-A	Method Blank	Total/NA	Solid	8015M/D	12079
LCS 885-12079/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12079
885-11527-32 MS	TB-B29	Total/NA	Solid	8015M/D	12079
885-11527-32 MSD	TB-B29	Total/NA	Solid	8015M/D	12079

Analysis Batch: 12423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-32	TB-B29	Total/NA	Solid	8021B	12079
885-11527-33	TB-B30	Total/NA	Solid	8021B	12079
885-11527-34	TB-B31	Total/NA	Solid	8021B	12079
885-11527-35	TB-B32	Total/NA	Solid	8021B	12079
885-11527-36	TB-B33	Total/NA	Solid	8021B	12079
885-11527-37	TB-B34	Total/NA	Solid	8021B	12079
885-11527-38	TB-B35	Total/NA	Solid	8021B	12079
885-11527-39	TB-B36	Total/NA	Solid	8021B	12079
885-11527-40	TB-B37	Total/NA	Solid	8021B	12079
MB 885-12079/1-A	Method Blank	Total/NA	Solid	8021B	12079
LCS 885-12079/3-A	Lab Control Sample	Total/NA	Solid	8021B	12079
885-11527-33 MS	TB-B30	Total/NA	Solid	8021B	12079
885-11527-33 MSD	TB-B30	Total/NA	Solid	8021B	12079

GC Semi VOA

Prep Batch: 12145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-1	TB-W4A	Total/NA	Solid	SHAKE	
885-11527-2	TB-W6A	Total/NA	Solid	SHAKE	
885-11527-3	TB-W8A	Total/NA	Solid	SHAKE	
885-11527-4	TB-W13A	Total/NA	Solid	SHAKE	
885-11527-5	TB-W14A	Total/NA	Solid	SHAKE	
885-11527-6	TB-W17A	Total/NA	Solid	SHAKE	
885-11527-7	TB-B1	Total/NA	Solid	SHAKE	
885-11527-8	TB-B2	Total/NA	Solid	SHAKE	
885-11527-9	TB-B3	Total/NA	Solid	SHAKE	
885-11527-10	TB-B4	Total/NA	Solid	SHAKE	
885-11527-11	TB-B6	Total/NA	Solid	SHAKE	
885-11527-12	TB-B7	Total/NA	Solid	SHAKE	
MB 885-12145/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12145/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 12209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-6	TB-W17A	Total/NA	Solid	8015M/D	12145
885-11527-7	TB-B1	Total/NA	Solid	8015M/D	12145
885-11527-8	TB-B2	Total/NA	Solid	8015M/D	12145
885-11527-9	TB-B3	Total/NA	Solid	8015M/D	12145
885-11527-10	TB-B4	Total/NA	Solid	8015M/D	12145

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

GC Semi VOA (Continued)

Analysis Batch: 12209 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-11	TB-B6	Total/NA	Solid	8015M/D	12145
885-11527-12	TB-B7	Total/NA	Solid	8015M/D	12145
885-11527-13	TB-B8	Total/NA	Solid	8015M/D	12222
885-11527-14	TB-B9	Total/NA	Solid	8015M/D	12222
885-11527-15	TB-B-10A	Total/NA	Solid	8015M/D	12222
885-11527-16	TB-B11	Total/NA	Solid	8015M/D	12222
885-11527-17	TB-B12	Total/NA	Solid	8015M/D	12222
885-11527-18	TB-B13	Total/NA	Solid	8015M/D	12222
885-11527-19	TB-B14	Total/NA	Solid	8015M/D	12222
885-11527-20	TB-B15	Total/NA	Solid	8015M/D	12222
885-11527-21	TB-B16	Total/NA	Solid	8015M/D	12222
885-11527-22	TB-B17	Total/NA	Solid	8015M/D	12222
885-11527-23	TB-B18	Total/NA	Solid	8015M/D	12222
885-11527-24	TB-B-19A	Total/NA	Solid	8015M/D	12222
885-11527-25	TB-B-20A	Total/NA	Solid	8015M/D	12222
885-11527-26	TB-B21	Total/NA	Solid	8015M/D	12222
885-11527-27	TB-B22	Total/NA	Solid	8015M/D	12222
885-11527-28	TB-B-23A	Total/NA	Solid	8015M/D	12222
885-11527-29	TB-B26	Total/NA	Solid	8015M/D	12222
885-11527-30	TB-B27	Total/NA	Solid	8015M/D	12222
885-11527-31	TB-B28	Total/NA	Solid	8015M/D	12222
MB 885-12145/1-A	Method Blank	Total/NA	Solid	8015M/D	12145
MB 885-12222/1-A	Method Blank	Total/NA	Solid	8015M/D	12222
LCS 885-12145/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12145
LCS 885-12222/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12222
885-11527-31 MS	TB-B28	Total/NA	Solid	8015M/D	12222
885-11527-31 MSD	TB-B28	Total/NA	Solid	8015M/D	12222

Prep Batch: 12222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-13	TB-B8	Total/NA	Solid	SHAKE	
885-11527-14	TB-B9	Total/NA	Solid	SHAKE	
885-11527-15	TB-B-10A	Total/NA	Solid	SHAKE	
885-11527-16	TB-B11	Total/NA	Solid	SHAKE	
885-11527-17	TB-B12	Total/NA	Solid	SHAKE	
885-11527-18	TB-B13	Total/NA	Solid	SHAKE	
885-11527-19	TB-B14	Total/NA	Solid	SHAKE	
885-11527-20	TB-B15	Total/NA	Solid	SHAKE	
885-11527-21	TB-B16	Total/NA	Solid	SHAKE	
885-11527-22	TB-B17	Total/NA	Solid	SHAKE	
885-11527-23	TB-B18	Total/NA	Solid	SHAKE	
885-11527-24	TB-B-19A	Total/NA	Solid	SHAKE	
885-11527-25	TB-B-20A	Total/NA	Solid	SHAKE	
885-11527-26	TB-B21	Total/NA	Solid	SHAKE	
885-11527-27	TB-B22	Total/NA	Solid	SHAKE	
885-11527-28	TB-B-23A	Total/NA	Solid	SHAKE	
885-11527-29	TB-B26	Total/NA	Solid	SHAKE	
885-11527-30	TB-B27	Total/NA	Solid	SHAKE	
885-11527-31	TB-B28	Total/NA	Solid	SHAKE	
MB 885-12222/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12222/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

GC Semi VOA (Continued)

Prep Batch: 12222 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-31 MS	TB-B28	Total/NA	Solid	SHAKE	
885-11527-31 MSD	TB-B28	Total/NA	Solid	SHAKE	

Prep Batch: 12236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-32	TB-B29	Total/NA	Solid	SHAKE	
885-11527-33	TB-B30	Total/NA	Solid	SHAKE	
885-11527-34	TB-B31	Total/NA	Solid	SHAKE	
885-11527-35	TB-B32	Total/NA	Solid	SHAKE	
885-11527-36	TB-B33	Total/NA	Solid	SHAKE	
885-11527-37	TB-B34	Total/NA	Solid	SHAKE	
885-11527-38	TB-B35	Total/NA	Solid	SHAKE	
885-11527-39	TB-B36	Total/NA	Solid	SHAKE	
885-11527-40	TB-B37	Total/NA	Solid	SHAKE	
MB 885-12236/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12236/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 12287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-32	TB-B29	Total/NA	Solid	8015M/D	12236
885-11527-33	TB-B30	Total/NA	Solid	8015M/D	12236
885-11527-34	TB-B31	Total/NA	Solid	8015M/D	12236
885-11527-35	TB-B32	Total/NA	Solid	8015M/D	12236
885-11527-36	TB-B33	Total/NA	Solid	8015M/D	12236
885-11527-37	TB-B34	Total/NA	Solid	8015M/D	12236
885-11527-38	TB-B35	Total/NA	Solid	8015M/D	12236
885-11527-39	TB-B36	Total/NA	Solid	8015M/D	12236
885-11527-40	TB-B37	Total/NA	Solid	8015M/D	12236
MB 885-12236/1-A	Method Blank	Total/NA	Solid	8015M/D	12236
LCS 885-12236/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12236

Analysis Batch: 12307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-1	TB-W4A	Total/NA	Solid	8015M/D	12145
885-11527-2	TB-W6A	Total/NA	Solid	8015M/D	12145
885-11527-3	TB-W8A	Total/NA	Solid	8015M/D	12145
885-11527-4	TB-W13A	Total/NA	Solid	8015M/D	12145
885-11527-5	TB-W14A	Total/NA	Solid	8015M/D	12145

HPLC/IC

Prep Batch: 12213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-1	TB-W4A	Total/NA	Solid	300_Prep	
885-11527-2	TB-W6A	Total/NA	Solid	300_Prep	
885-11527-3	TB-W8A	Total/NA	Solid	300_Prep	
885-11527-4	TB-W13A	Total/NA	Solid	300_Prep	
885-11527-5	TB-W14A	Total/NA	Solid	300_Prep	
885-11527-6	TB-W17A	Total/NA	Solid	300_Prep	
885-11527-7	TB-B1	Total/NA	Solid	300_Prep	
885-11527-8	TB-B2	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

HPLC/IC (Continued)

Prep Batch: 12213 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-9	TB-B3	Total/NA	Solid	300_Prep	
885-11527-10	TB-B4	Total/NA	Solid	300_Prep	
885-11527-11	TB-B6	Total/NA	Solid	300_Prep	
885-11527-12	TB-B7	Total/NA	Solid	300_Prep	
MB 885-12213/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12213/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-11527-3 MS	TB-W8A	Total/NA	Solid	300_Prep	
885-11527-3 MSD	TB-W8A	Total/NA	Solid	300_Prep	

Analysis Batch: 12227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-12213/1-A	Method Blank	Total/NA	Solid	300.0	12213

Prep Batch: 12240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-13	TB-B8	Total/NA	Solid	300_Prep	
885-11527-14	TB-B9	Total/NA	Solid	300_Prep	
885-11527-15	TB-B-10A	Total/NA	Solid	300_Prep	
885-11527-16	TB-B11	Total/NA	Solid	300_Prep	
885-11527-17	TB-B12	Total/NA	Solid	300_Prep	
885-11527-18	TB-B13	Total/NA	Solid	300_Prep	
885-11527-19	TB-B14	Total/NA	Solid	300_Prep	
885-11527-20	TB-B15	Total/NA	Solid	300_Prep	
885-11527-21	TB-B16	Total/NA	Solid	300_Prep	
885-11527-22	TB-B17	Total/NA	Solid	300_Prep	
885-11527-23	TB-B18	Total/NA	Solid	300_Prep	
885-11527-24	TB-B-19A	Total/NA	Solid	300_Prep	
885-11527-25	TB-B-20A	Total/NA	Solid	300_Prep	
885-11527-26	TB-B21	Total/NA	Solid	300_Prep	
MB 885-12240/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12240/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-11527-25 MS	TB-B-20A	Total/NA	Solid	300_Prep	
885-11527-25 MSD	TB-B-20A	Total/NA	Solid	300_Prep	

Analysis Batch: 12262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-13	TB-B8	Total/NA	Solid	300.0	12240
885-11527-14	TB-B9	Total/NA	Solid	300.0	12240
885-11527-15	TB-B-10A	Total/NA	Solid	300.0	12240
885-11527-16	TB-B11	Total/NA	Solid	300.0	12240
885-11527-17	TB-B12	Total/NA	Solid	300.0	12240
885-11527-18	TB-B13	Total/NA	Solid	300.0	12240
885-11527-19	TB-B14	Total/NA	Solid	300.0	12240
885-11527-20	TB-B15	Total/NA	Solid	300.0	12240
885-11527-21	TB-B16	Total/NA	Solid	300.0	12240
885-11527-22	TB-B17	Total/NA	Solid	300.0	12240
885-11527-23	TB-B18	Total/NA	Solid	300.0	12240
885-11527-24	TB-B-19A	Total/NA	Solid	300.0	12240
885-11527-25	TB-B-20A	Total/NA	Solid	300.0	12240
885-11527-26	TB-B21	Total/NA	Solid	300.0	12240
MB 885-12240/1-A	Method Blank	Total/NA	Solid	300.0	12240

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

HPLC/IC (Continued)

Analysis Batch: 12262 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-12240/2-A	Lab Control Sample	Total/NA	Solid	300.0	12240
885-11527-25 MS	TB-B-20A	Total/NA	Solid	300.0	12240
885-11527-25 MSD	TB-B-20A	Total/NA	Solid	300.0	12240

Prep Batch: 12269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-27	TB-B22	Total/NA	Solid	300_Prep	
885-11527-28	TB-B-23A	Total/NA	Solid	300_Prep	
885-11527-29	TB-B26	Total/NA	Solid	300_Prep	
885-11527-30	TB-B27	Total/NA	Solid	300_Prep	
885-11527-31	TB-B28	Total/NA	Solid	300_Prep	
885-11527-32	TB-B29	Total/NA	Solid	300_Prep	
885-11527-33	TB-B30	Total/NA	Solid	300_Prep	
MB 885-12269/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12269/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 12270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-34	TB-B31	Total/NA	Solid	300_Prep	
885-11527-35	TB-B32	Total/NA	Solid	300_Prep	
885-11527-36	TB-B33	Total/NA	Solid	300_Prep	
885-11527-37	TB-B34	Total/NA	Solid	300_Prep	
885-11527-38	TB-B35	Total/NA	Solid	300_Prep	
885-11527-39	TB-B36	Total/NA	Solid	300_Prep	
885-11527-40	TB-B37	Total/NA	Solid	300_Prep	
MB 885-12270/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12270/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-11527-34 MSD	TB-B31	Total/NA	Solid	300_Prep	
885-11527-35 MS	TB-B32	Total/NA	Solid	300_Prep	

Analysis Batch: 12327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-27	TB-B22	Total/NA	Solid	300.0	12269
885-11527-28	TB-B-23A	Total/NA	Solid	300.0	12269
885-11527-29	TB-B26	Total/NA	Solid	300.0	12269
885-11527-30	TB-B27	Total/NA	Solid	300.0	12269
885-11527-31	TB-B28	Total/NA	Solid	300.0	12269
885-11527-32	TB-B29	Total/NA	Solid	300.0	12269
885-11527-33	TB-B30	Total/NA	Solid	300.0	12269
885-11527-34	TB-B31	Total/NA	Solid	300.0	12270
885-11527-35	TB-B32	Total/NA	Solid	300.0	12270
885-11527-36	TB-B33	Total/NA	Solid	300.0	12270
885-11527-37	TB-B34	Total/NA	Solid	300.0	12270
885-11527-38	TB-B35	Total/NA	Solid	300.0	12270
885-11527-39	TB-B36	Total/NA	Solid	300.0	12270
885-11527-40	TB-B37	Total/NA	Solid	300.0	12270
MB 885-12269/1-A	Method Blank	Total/NA	Solid	300.0	12269
MB 885-12270/1-A	Method Blank	Total/NA	Solid	300.0	12270
LCS 885-12269/2-A	Lab Control Sample	Total/NA	Solid	300.0	12269
LCS 885-12270/2-A	Lab Control Sample	Total/NA	Solid	300.0	12270
885-11527-34 MSD	TB-B31	Total/NA	Solid	300.0	12270

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

HPLC/IC (Continued)

Analysis Batch: 12327 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-35 MS	TB-B32	Total/NA	Solid	300.0	12270

Analysis Batch: 12355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11527-1	TB-W4A	Total/NA	Solid	300.0	12213
885-11527-2	TB-W6A	Total/NA	Solid	300.0	12213
885-11527-3	TB-W8A	Total/NA	Solid	300.0	12213
885-11527-4	TB-W13A	Total/NA	Solid	300.0	12213
885-11527-5	TB-W14A	Total/NA	Solid	300.0	12213
885-11527-6	TB-W17A	Total/NA	Solid	300.0	12213
885-11527-7	TB-B1	Total/NA	Solid	300.0	12213
885-11527-8	TB-B2	Total/NA	Solid	300.0	12213
885-11527-9	TB-B3	Total/NA	Solid	300.0	12213
885-11527-10	TB-B4	Total/NA	Solid	300.0	12213
885-11527-11	TB-B6	Total/NA	Solid	300.0	12213
885-11527-12	TB-B7	Total/NA	Solid	300.0	12213
MB 885-12213/1-A	Method Blank	Total/NA	Solid	300.0	12213
LCS 885-12213/2-A	Lab Control Sample	Total/NA	Solid	300.0	12213
885-11527-3 MS	TB-W8A	Total/NA	Solid	300.0	12213
885-11527-3 MSD	TB-W8A	Total/NA	Solid	300.0	12213

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-W4A

Lab Sample ID: 885-11527-1

Date Collected: 09/09/24 09:30
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8015M/D		1	12296	AT	EET ALB	09/14/24 07:00
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8021B		1	12297	AT	EET ALB	09/14/24 07:00
Total/NA	Prep	SHAKE			12145	EM	EET ALB	09/12/24 15:11
Total/NA	Analysis	8015M/D		1	12307	KR	EET ALB	09/16/24 13:20
Total/NA	Prep	300_Prep			12213	EH	EET ALB	09/13/24 10:05
Total/NA	Analysis	300.0		20	12355	JT	EET ALB	09/16/24 10:14

Client Sample ID: TB-W6A

Lab Sample ID: 885-11527-2

Date Collected: 09/09/24 09:34
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8015M/D		1	12296	AT	EET ALB	09/14/24 07:22
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8021B		1	12297	AT	EET ALB	09/14/24 07:22
Total/NA	Prep	SHAKE			12145	EM	EET ALB	09/12/24 15:11
Total/NA	Analysis	8015M/D		1	12307	KR	EET ALB	09/16/24 13:44
Total/NA	Prep	300_Prep			12213	EH	EET ALB	09/13/24 10:05
Total/NA	Analysis	300.0		20	12355	JT	EET ALB	09/16/24 10:29

Client Sample ID: TB-W8A

Lab Sample ID: 885-11527-3

Date Collected: 09/09/24 09:36
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8015M/D		1	12296	AT	EET ALB	09/14/24 08:06
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8021B		1	12297	AT	EET ALB	09/14/24 08:06
Total/NA	Prep	SHAKE			12145	EM	EET ALB	09/12/24 15:11
Total/NA	Analysis	8015M/D		1	12307	KR	EET ALB	09/16/24 14:08
Total/NA	Prep	300_Prep			12213	EH	EET ALB	09/13/24 10:05
Total/NA	Analysis	300.0		20	12355	JT	EET ALB	09/16/24 10:44

Client Sample ID: TB-W13A

Lab Sample ID: 885-11527-4

Date Collected: 09/09/24 09:40
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8015M/D		1	12296	AT	EET ALB	09/14/24 08:27

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-11527-1
Project/Site: Roy SWD #3

Client Sample ID: TB-W13A
Lab Sample ID: 885-11527-4
Date Collected: 09/09/24 09:40
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8021B		1	12297	AT	EET ALB	09/14/24 08:27
Total/NA	Prep	SHAKE			12145	EM	EET ALB	09/12/24 15:11
Total/NA	Analysis	8015M/D		1	12307	KR	EET ALB	09/16/24 14:32
Total/NA	Prep	300_Prep			12213	EH	EET ALB	09/13/24 10:05
Total/NA	Analysis	300.0		20	12355	JT	EET ALB	09/16/24 12:15

Client Sample ID: TB-W14A
Lab Sample ID: 885-11527-5
Date Collected: 09/09/24 09:44
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8015M/D		1	12296	AT	EET ALB	09/14/24 08:49
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8021B		1	12297	AT	EET ALB	09/14/24 08:49
Total/NA	Prep	SHAKE			12145	EM	EET ALB	09/12/24 15:11
Total/NA	Analysis	8015M/D		1	12307	KR	EET ALB	09/16/24 14:55
Total/NA	Prep	300_Prep			12213	EH	EET ALB	09/13/24 10:05
Total/NA	Analysis	300.0		20	12355	JT	EET ALB	09/16/24 12:30

Client Sample ID: TB-W17A
Lab Sample ID: 885-11527-6
Date Collected: 09/09/24 09:46
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8015M/D		1	12296	AT	EET ALB	09/14/24 09:11
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8021B		1	12297	AT	EET ALB	09/14/24 09:11
Total/NA	Prep	SHAKE			12145	EM	EET ALB	09/12/24 15:11
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 22:26
Total/NA	Prep	300_Prep			12213	EH	EET ALB	09/13/24 10:05
Total/NA	Analysis	300.0		20	12355	JT	EET ALB	09/16/24 12:45

Client Sample ID: TB-B1
Lab Sample ID: 885-11527-7
Date Collected: 09/09/24 10:10
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8015M/D		1	12296	AT	EET ALB	09/14/24 09:33
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8021B		1	12297	AT	EET ALB	09/14/24 09:33

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B1

Lab Sample ID: 885-11527-7

Date Collected: 09/09/24 10:10
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			12145	EM	EET ALB	09/12/24 15:11
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 22:39
Total/NA	Prep	300_Prep			12213	EH	EET ALB	09/13/24 10:05
Total/NA	Analysis	300.0		20	12355	JT	EET ALB	09/16/24 13:00

Client Sample ID: TB-B2

Lab Sample ID: 885-11527-8

Date Collected: 09/09/24 10:12
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8015M/D		1	12296	AT	EET ALB	09/14/24 09:55
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8021B		1	12297	AT	EET ALB	09/14/24 09:55
Total/NA	Prep	SHAKE			12145	EM	EET ALB	09/12/24 15:11
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 23:04
Total/NA	Prep	300_Prep			12213	EH	EET ALB	09/13/24 10:05
Total/NA	Analysis	300.0		20	12355	JT	EET ALB	09/16/24 13:16

Client Sample ID: TB-B3

Lab Sample ID: 885-11527-9

Date Collected: 09/09/24 10:14
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8015M/D		1	12296	AT	EET ALB	09/14/24 10:17
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8021B		1	12297	AT	EET ALB	09/14/24 10:17
Total/NA	Prep	SHAKE			12145	EM	EET ALB	09/12/24 15:11
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 23:17
Total/NA	Prep	300_Prep			12213	EH	EET ALB	09/13/24 10:05
Total/NA	Analysis	300.0		20	12355	JT	EET ALB	09/16/24 13:31

Client Sample ID: TB-B4

Lab Sample ID: 885-11527-10

Date Collected: 09/09/24 10:16
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8015M/D		1	12296	AT	EET ALB	09/14/24 10:39
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8021B		1	12297	AT	EET ALB	09/14/24 10:39
Total/NA	Prep	SHAKE			12145	EM	EET ALB	09/12/24 15:11
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 23:29

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B4

Lab Sample ID: 885-11527-10

Date Collected: 09/09/24 10:16

Matrix: Solid

Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			12213	EH	EET ALB	09/13/24 10:05
Total/NA	Analysis	300.0		20	12355	JT	EET ALB	09/16/24 13:46

Client Sample ID: TB-B6

Lab Sample ID: 885-11527-11

Date Collected: 09/09/24 10:20

Matrix: Solid

Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8015M/D		1	12296	AT	EET ALB	09/14/24 11:00
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8021B		1	12297	AT	EET ALB	09/14/24 11:00
Total/NA	Prep	SHAKE			12145	EM	EET ALB	09/12/24 15:11
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 23:42
Total/NA	Prep	300_Prep			12213	EH	EET ALB	09/13/24 10:05
Total/NA	Analysis	300.0		20	12355	JT	EET ALB	09/16/24 14:01

Client Sample ID: TB-B7

Lab Sample ID: 885-11527-12

Date Collected: 09/09/24 10:24

Matrix: Solid

Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8015M/D		1	12296	AT	EET ALB	09/14/24 11:22
Total/NA	Prep	5030C			12010	JP	EET ALB	09/11/24 11:28
Total/NA	Analysis	8021B		1	12297	AT	EET ALB	09/14/24 11:22
Total/NA	Prep	SHAKE			12145	EM	EET ALB	09/12/24 15:11
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 23:54
Total/NA	Prep	300_Prep			12213	EH	EET ALB	09/13/24 10:05
Total/NA	Analysis	300.0		20	12355	JT	EET ALB	09/16/24 15:17

Client Sample ID: TB-B8

Lab Sample ID: 885-11527-13

Date Collected: 09/09/24 10:26

Matrix: Solid

Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/16/24 23:58
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/16/24 23:58
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 15:47
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 16:26

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B9

Lab Sample ID: 885-11527-14

Date Collected: 09/09/24 10:30
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 01:09
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 01:09
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 16:00
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 16:41

Client Sample ID: TB-B-10A

Lab Sample ID: 885-11527-15

Date Collected: 09/09/24 10:34
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 01:32
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 01:32
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 16:12
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 16:56

Client Sample ID: TB-B11

Lab Sample ID: 885-11527-16

Date Collected: 09/09/24 10:36
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 01:55
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 01:55
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 16:24
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 17:11

Client Sample ID: TB-B12

Lab Sample ID: 885-11527-17

Date Collected: 09/09/24 10:38
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 02:19

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B12

Lab Sample ID: 885-11527-17

Date Collected: 09/09/24 10:38

Matrix: Solid

Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 02:19
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 16:36
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 17:26

Client Sample ID: TB-B13

Lab Sample ID: 885-11527-18

Date Collected: 09/09/24 10:40

Matrix: Solid

Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 02:42
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 02:42
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 16:48
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 18:42

Client Sample ID: TB-B14

Lab Sample ID: 885-11527-19

Date Collected: 09/09/24 10:44

Matrix: Solid

Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 03:06
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 03:06
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 17:00
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 18:57

Client Sample ID: TB-B15

Lab Sample ID: 885-11527-20

Date Collected: 09/09/24 10:48

Matrix: Solid

Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 03:29
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 03:29

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-11527-1
Project/Site: Roy SWD #3

Client Sample ID: TB-B15
Lab Sample ID: 885-11527-20
Date Collected: 09/09/24 10:48
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 17:12
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 19:13

Client Sample ID: TB-B16
Lab Sample ID: 885-11527-21
Date Collected: 09/09/24 10:54
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 03:53
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 03:53
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 17:25
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 19:28

Client Sample ID: TB-B17
Lab Sample ID: 885-11527-22
Date Collected: 09/09/24 10:56
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 04:40
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 04:40
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 17:37
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 19:43

Client Sample ID: TB-B18
Lab Sample ID: 885-11527-23
Date Collected: 09/09/24 11:00
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 05:03
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 05:03
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 18:03

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B18

Lab Sample ID: 885-11527-23

Date Collected: 09/09/24 11:00
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 19:58

Client Sample ID: TB-B-19A

Lab Sample ID: 885-11527-24

Date Collected: 09/09/24 11:10
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 05:26
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 05:26
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 18:15
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 20:13

Client Sample ID: TB-B-20A

Lab Sample ID: 885-11527-25

Date Collected: 09/09/24 11:14
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 05:50
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 05:50
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 18:28
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 20:28

Client Sample ID: TB-B21

Lab Sample ID: 885-11527-26

Date Collected: 09/09/24 11:20
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 06:13
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 06:13
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 18:41
Total/NA	Prep	300_Prep			12240	EH	EET ALB	09/13/24 15:01
Total/NA	Analysis	300.0		20	12262	EH	EET ALB	09/13/24 21:44

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B22

Lab Sample ID: 885-11527-27

Date Collected: 09/09/24 11:22
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 06:37
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 06:37
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 18:53
Total/NA	Prep	300_Prep			12269	JT	EET ALB	09/16/24 07:46
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 08:51

Client Sample ID: TB-B-23A

Lab Sample ID: 885-11527-28

Date Collected: 09/09/24 11:26
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 07:00
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 07:00
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 19:06
Total/NA	Prep	300_Prep			12269	JT	EET ALB	09/16/24 07:46
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 09:29

Client Sample ID: TB-B26

Lab Sample ID: 885-11527-29

Date Collected: 09/09/24 11:30
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 07:24
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 07:24
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 19:18
Total/NA	Prep	300_Prep			12269	JT	EET ALB	09/16/24 07:46
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 10:08

Client Sample ID: TB-B27

Lab Sample ID: 885-11527-30

Date Collected: 09/09/24 11:40
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 07:47

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-11527-1
Project/Site: Roy SWD #3

Client Sample ID: TB-B27
Lab Sample ID: 885-11527-30
Date Collected: 09/09/24 11:40
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 07:47
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 19:31
Total/NA	Prep	300_Prep			12269	JT	EET ALB	09/16/24 07:46
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 10:21

Client Sample ID: TB-B28
Lab Sample ID: 885-11527-31
Date Collected: 09/09/24 11:42
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8015M/D		1	12323	JP	EET ALB	09/17/24 08:11
Total/NA	Prep	5030C			12049	JR	EET ALB	09/11/24 13:20
Total/NA	Analysis	8021B		1	12324	JP	EET ALB	09/17/24 08:11
Total/NA	Prep	SHAKE			12222	KR	EET ALB	09/13/24 10:51
Total/NA	Analysis	8015M/D		1	12209	KR	EET ALB	09/13/24 19:43
Total/NA	Prep	300_Prep			12269	JT	EET ALB	09/16/24 07:46
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 10:59

Client Sample ID: TB-B29
Lab Sample ID: 885-11527-32
Date Collected: 09/09/24 12:00
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8015M/D		1	12422	JP	EET ALB	09/17/24 22:31
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8021B		1	12423	JP	EET ALB	09/17/24 22:31
Total/NA	Prep	SHAKE			12236	KR	EET ALB	09/13/24 13:24
Total/NA	Analysis	8015M/D		1	12287	EM	EET ALB	09/16/24 16:07
Total/NA	Prep	300_Prep			12269	JT	EET ALB	09/16/24 07:46
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 11:12

Client Sample ID: TB-B30
Lab Sample ID: 885-11527-33
Date Collected: 09/09/24 12:02
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8015M/D		1	12422	JP	EET ALB	09/17/24 23:41
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8021B		1	12423	JP	EET ALB	09/17/24 23:41

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B30

Lab Sample ID: 885-11527-33

Date Collected: 09/09/24 12:02
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			12236	KR	EET ALB	09/13/24 13:24
Total/NA	Analysis	8015M/D		1	12287	EM	EET ALB	09/16/24 16:18
Total/NA	Prep	300_Prep			12269	JT	EET ALB	09/16/24 07:46
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 11:25

Client Sample ID: TB-B31

Lab Sample ID: 885-11527-34

Date Collected: 09/09/24 12:04
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8015M/D		1	12422	JP	EET ALB	09/18/24 00:52
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8021B		1	12423	JP	EET ALB	09/18/24 00:52
Total/NA	Prep	SHAKE			12236	KR	EET ALB	09/13/24 13:24
Total/NA	Analysis	8015M/D		1	12287	EM	EET ALB	09/16/24 16:28
Total/NA	Prep	300_Prep			12270	JT	EET ALB	09/16/24 08:10
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 15:17

Client Sample ID: TB-B32

Lab Sample ID: 885-11527-35

Date Collected: 09/09/24 12:06
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8015M/D		1	12422	JP	EET ALB	09/18/24 01:15
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8021B		1	12423	JP	EET ALB	09/18/24 01:15
Total/NA	Prep	SHAKE			12236	KR	EET ALB	09/13/24 13:24
Total/NA	Analysis	8015M/D		1	12287	EM	EET ALB	09/16/24 16:39
Total/NA	Prep	300_Prep			12270	JT	EET ALB	09/16/24 08:10
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 16:22

Client Sample ID: TB-B33

Lab Sample ID: 885-11527-36

Date Collected: 09/09/24 12:08
Matrix: Solid
Date Received: 09/11/24 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8015M/D		1	12422	JP	EET ALB	09/18/24 01:39
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8021B		1	12423	JP	EET ALB	09/18/24 01:39
Total/NA	Prep	SHAKE			12236	KR	EET ALB	09/13/24 13:24
Total/NA	Analysis	8015M/D		1	12287	EM	EET ALB	09/16/24 16:50

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B33

Date Collected: 09/09/24 12:08
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			12270	JT	EET ALB	09/16/24 08:10
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 17:00

Client Sample ID: TB-B34

Date Collected: 09/09/24 12:10
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8015M/D		1	12422	JP	EET ALB	09/18/24 02:02
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8021B		1	12423	JP	EET ALB	09/18/24 02:02
Total/NA	Prep	SHAKE			12236	KR	EET ALB	09/13/24 13:24
Total/NA	Analysis	8015M/D		1	12287	EM	EET ALB	09/16/24 17:01
Total/NA	Prep	300_Prep			12270	JT	EET ALB	09/16/24 08:10
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 17:13

Client Sample ID: TB-B35

Date Collected: 09/09/24 12:14
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8015M/D		1	12422	JP	EET ALB	09/18/24 02:26
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8021B		1	12423	JP	EET ALB	09/18/24 02:26
Total/NA	Prep	SHAKE			12236	KR	EET ALB	09/13/24 13:24
Total/NA	Analysis	8015M/D		1	12287	EM	EET ALB	09/16/24 17:12
Total/NA	Prep	300_Prep			12270	JT	EET ALB	09/16/24 08:10
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 17:26

Client Sample ID: TB-B36

Date Collected: 09/09/24 12:16
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8015M/D		1	12422	JP	EET ALB	09/18/24 02:49
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8021B		1	12423	JP	EET ALB	09/18/24 02:49
Total/NA	Prep	SHAKE			12236	KR	EET ALB	09/13/24 13:24
Total/NA	Analysis	8015M/D		1	12287	EM	EET ALB	09/16/24 17:22
Total/NA	Prep	300_Prep			12270	JT	EET ALB	09/16/24 08:10
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 17:39

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-11527-1

Client Sample ID: TB-B37

Date Collected: 09/09/24 12:18
Date Received: 09/11/24 07:50

Lab Sample ID: 885-11527-40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8015M/D		1	12422	JP	EET ALB	09/18/24 03:13
Total/NA	Prep	5030C			12079	JP	EET ALB	09/11/24 16:09
Total/NA	Analysis	8021B		1	12423	JP	EET ALB	09/18/24 03:13
Total/NA	Prep	SHAKE			12236	KR	EET ALB	09/13/24 13:24
Total/NA	Analysis	8015M/D		1	12287	EM	EET ALB	09/16/24 17:44
Total/NA	Prep	300_Prep			12270	JT	EET ALB	09/16/24 08:10
Total/NA	Analysis	300.0		20	12327	MA	EET ALB	09/16/24 17:52

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-11527-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

HALL ENVIRONME
ANALYSIS LABORA
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-11527 COC

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: JMartinez Chucky

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.3 + 0.5 = 0.8 °C

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9/9/24	0930	SOIL	TB-W4A	1x4oz Jar	ICE	1	X	X	X
	0934		TB-W6A			2			
	0936		TB-W8A			3			
	0940		TB-W13A			4			
	0944		TB-W14A			5			
	0946		TB-W17A			6			
	1010		TB-B1			7			
	1012		TB-B2			8			
	1014		TB-B3			9			
	1016		TB-B4			10			
	1020		TB-B6			11			
	1024		TB-B7			12			

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
9/10/24	900				9/10/24	900
				courier	9/11/24	7:35

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J.Martinez

On Ice: ☑ Yes ☐ No checking

# of Coolers: 1

Cooler Temp(including CF): 0.3+0.5 = 0.8°c

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9/9/24	1026	SOIL	TB-B8	1x4oz Jar	ICE	13	X	X	X
	1030		TB-B9			14			
	1034		TB-B-10A			15			
	1036		TB-B11			16			
	1038		TB-B12			17			
	1040		TB-B13			18			
	1044		TB-B14			19			
	1048		TB-B15			20			
	1054		TB-B16			21			
	1056		TB-B17			22			
	1100		TB-B18			23			
	1110		TB-B-19A			24			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/10/24	900				9/10/24	900
9/10/24	1900			courier	9/11	

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

9/19/2024

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J Martinez

On Ice: ☑ Yes ☐ No chucky

# of Coolers: 1

Cooler Temp(including CF): 0.3+0.5 = 0.8 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9/9/24	1114	SOIL	TB-B20A	1x4oz Jar	ICE	25	X	X	X
	1126		TB-~~B20~~ B21			26			
	1122		TB-B22			27			
	1126		TB-B23A			28			
	1130		TB-B26			29			
	1140		TB-B27			30			
	1142		TB-B28			31			
	~~1200~~		TB-~~B29~~ B29			32			
	1202		TB-B30			33			
	1204		TB-B31			34			
	1206		TB-B32			35			
	1208		TB-B33			36			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/10/24	900				9/10/24	900
9/10/24	1900			courier	9/11/24	7:50

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

9/19/2024

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 5 DAY TAT

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No chucky

# of Coolers: 1

Cooler Temp(Including CF): 0.3 + 0.5 = 0.8 °C

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9/9/24	1210	SOIL	TB-B34	1x4oz Jar	ICE	37	X	X	X
	1214		TB-B35			38			
	1216		TB-B36			39			
	1218		TB-B37			40			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/9/24	900				9/10/24	900
Date:	Time:	Relinquished by:	Received by:	Via: courier	Date 9/11/24	Time 7:50

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-11527-1

Login Number: 11527 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 10/11/2024 3:44:47 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-13233-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
10/11/2024 3:44:47 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-13233-1

Table of Contents

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-13233-1
Project/Site: Roy SWD #3

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-13233-1

Job ID: 885-13233-1 Eurofins Albuquerque

Job Narrative
885-13233-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/5/2024 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-13871 recovered outside acceptance criteria, low biased, for Diesel Range Organics [C10-C28]. Samples with low surrogate will be re-ran. The following samples are associated TB-B4A (885-13233-1), TB-B14A (885-13233-2), TB-B20B (885-13233-3), TB-35A (885-13233-4), TB-B36A (885-13233-5), TB-B27A (885-13233-6), TB-B38A (885-13233-7), TB-B39 (885-13233-8), TB-B40 (885-13233-9), TB-B45 (885-13233-10) and (CCV 885-13871/34).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Client Sample ID: TB-B4A

Date Collected: 10/03/24 13:30
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13233-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/08/24 10:48	10/10/24 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*10/08/24 10:48*	*10/10/24 15:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/08/24 10:48	10/10/24 15:34	1
Ethylbenzene	ND		0.050		mg/Kg		10/08/24 10:48	10/10/24 15:34	1
Toluene	ND		0.050		mg/Kg		10/08/24 10:48	10/10/24 15:34	1
Xylenes, Total	ND		0.10		mg/Kg		10/08/24 10:48	10/10/24 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*10/08/24 10:48*	*10/10/24 15:34*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		10/08/24 11:46	10/08/24 18:28	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/08/24 11:46	10/08/24 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*10/08/24 11:46*	*10/08/24 18:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		60		mg/Kg		10/08/24 12:40	10/08/24 17:04	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Client Sample ID: TB-B14A

Date Collected: 10/03/24 13:32
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13233-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		10/08/24 10:48	10/10/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*10/08/24 10:48*	*10/10/24 15:57*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/08/24 10:48	10/10/24 15:57	1
Ethylbenzene	ND		0.048		mg/Kg		10/08/24 10:48	10/10/24 15:57	1
Toluene	ND		0.048		mg/Kg		10/08/24 10:48	10/10/24 15:57	1
Xylenes, Total	ND		0.096		mg/Kg		10/08/24 10:48	10/10/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/08/24 10:48*	*10/10/24 15:57*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		10/08/24 11:46	10/08/24 18:50	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		10/08/24 11:46	10/08/24 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*10/08/24 11:46*	*10/08/24 18:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**550**		60		mg/Kg		10/08/24 12:40	10/08/24 17:16	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Client Sample ID: TB-B20B

Date Collected: 10/03/24 13:34
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13233-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/08/24 10:48	10/10/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*10/08/24 10:48*	*10/10/24 16:20*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/08/24 10:48	10/10/24 16:20	1
Ethylbenzene	ND		0.049		mg/Kg		10/08/24 10:48	10/10/24 16:20	1
Toluene	ND		0.049		mg/Kg		10/08/24 10:48	10/10/24 16:20	1
Xylenes, Total	ND		0.099		mg/Kg		10/08/24 10:48	10/10/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*10/08/24 10:48*	*10/10/24 16:20*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		10/08/24 11:46	10/08/24 19:01	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/08/24 11:46	10/08/24 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*10/08/24 11:46*	*10/08/24 19:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**900**		60		mg/Kg		10/08/24 12:40	10/08/24 17:29	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Client Sample ID: TB-35A

Date Collected: 10/03/24 13:40
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13233-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		10/08/24 10:48	10/10/24 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*10/08/24 10:48*	*10/10/24 16:44*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		10/08/24 10:48	10/10/24 16:44	1
Ethylbenzene	ND		0.047		mg/Kg		10/08/24 10:48	10/10/24 16:44	1
Toluene	ND		0.047		mg/Kg		10/08/24 10:48	10/10/24 16:44	1
Xylenes, Total	ND		0.094		mg/Kg		10/08/24 10:48	10/10/24 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*10/08/24 10:48*	*10/10/24 16:44*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		10/08/24 11:46	10/08/24 19:13	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		10/08/24 11:46	10/08/24 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*78*		*62 - 134*	*10/08/24 11:46*	*10/08/24 19:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2300**		150		mg/Kg		10/08/24 12:40	10/09/24 19:27	50

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Client Sample ID: TB-B36A

Lab Sample ID: 885-13233-5

Date Collected: 10/03/24 13:46
Matrix: Solid
Date Received: 10/05/24 09:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/08/24 10:48	10/10/24 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*10/08/24 10:48*	*10/10/24 17:07*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/08/24 10:48	10/10/24 17:07	1
Ethylbenzene	ND		0.049		mg/Kg		10/08/24 10:48	10/10/24 17:07	1
Toluene	ND		0.049		mg/Kg		10/08/24 10:48	10/10/24 17:07	1
Xylenes, Total	ND		0.099		mg/Kg		10/08/24 10:48	10/10/24 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*10/08/24 10:48*	*10/10/24 17:07*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		10/08/24 11:46	10/08/24 19:24	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/08/24 11:46	10/08/24 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*70*		*62 - 134*	*10/08/24 11:46*	*10/08/24 19:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**970**		60		mg/Kg		10/08/24 12:40	10/08/24 17:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Client Sample ID: TB-B27A

Lab Sample ID: 885-13233-6

Date Collected: 10/03/24 14:00
Matrix: Solid
Date Received: 10/05/24 09:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/08/24 10:48	10/10/24 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*10/08/24 10:48*	*10/10/24 17:31*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/08/24 10:48	10/10/24 17:31	1
Ethylbenzene	ND		0.049		mg/Kg		10/08/24 10:48	10/10/24 17:31	1
Toluene	ND		0.049		mg/Kg		10/08/24 10:48	10/10/24 17:31	1
Xylenes, Total	ND		0.098		mg/Kg		10/08/24 10:48	10/10/24 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*10/08/24 10:48*	*10/10/24 17:31*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		10/08/24 11:46	10/08/24 19:35	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/08/24 11:46	10/08/24 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*75*		*62 - 134*	*10/08/24 11:46*	*10/08/24 19:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7000**		300		mg/Kg		10/08/24 12:40	10/09/24 20:41	100

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Client Sample ID: TB-B38A

Date Collected: 10/03/24 14:02
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13233-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		10/08/24 10:48	10/10/24 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*10/08/24 10:48*	*10/10/24 17:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		10/08/24 10:48	10/10/24 17:54	1
Ethylbenzene	ND		0.047		mg/Kg		10/08/24 10:48	10/10/24 17:54	1
Toluene	ND		0.047		mg/Kg		10/08/24 10:48	10/10/24 17:54	1
Xylenes, Total	ND		0.093		mg/Kg		10/08/24 10:48	10/10/24 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*10/08/24 10:48*	*10/10/24 17:54*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		10/08/24 11:46	10/08/24 19:46	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		10/08/24 11:46	10/08/24 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*72*		*62 - 134*	*10/08/24 11:46*	*10/08/24 19:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65**		60		mg/Kg		10/08/24 12:40	10/08/24 18:18	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Client Sample ID: TB-B39

Date Collected: 10/03/24 14:04
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13233-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		10/08/24 10:48	10/10/24 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*10/08/24 10:48*	*10/10/24 18:18*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/08/24 10:48	10/10/24 18:18	1
Ethylbenzene	ND		0.048		mg/Kg		10/08/24 10:48	10/10/24 18:18	1
Toluene	ND		0.048		mg/Kg		10/08/24 10:48	10/10/24 18:18	1
Xylenes, Total	ND		0.096		mg/Kg		10/08/24 10:48	10/10/24 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*10/08/24 10:48*	*10/10/24 18:18*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		10/08/24 11:46	10/08/24 19:57	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		10/08/24 11:46	10/08/24 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*74*		*62 - 134*	*10/08/24 11:46*	*10/08/24 19:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66**		60		mg/Kg		10/08/24 12:40	10/08/24 18:31	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Client Sample ID: TB-B40

Date Collected: 10/03/24 14:06
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13233-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		10/08/24 10:48	10/10/24 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*10/08/24 10:48*	*10/10/24 18:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		10/08/24 10:48	10/10/24 18:41	1
Ethylbenzene	ND		0.046		mg/Kg		10/08/24 10:48	10/10/24 18:41	1
Toluene	ND		0.046		mg/Kg		10/08/24 10:48	10/10/24 18:41	1
Xylenes, Total	ND		0.093		mg/Kg		10/08/24 10:48	10/10/24 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*10/08/24 10:48*	*10/10/24 18:41*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6		mg/Kg		10/08/24 11:46	10/08/24 20:08	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		10/08/24 11:46	10/08/24 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*77*		*62 - 134*	*10/08/24 11:46*	*10/08/24 20:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82**		60		mg/Kg		10/08/24 12:40	10/08/24 18:43	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Client Sample ID: TB-B45

Date Collected: 10/03/24 14:10
Date Received: 10/05/24 09:00

Lab Sample ID: 885-13233-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		10/08/24 10:48	10/10/24 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*10/08/24 10:48*	*10/10/24 19:05*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/08/24 10:48	10/10/24 19:05	1
Ethylbenzene	ND		0.048		mg/Kg		10/08/24 10:48	10/10/24 19:05	1
Toluene	ND		0.048		mg/Kg		10/08/24 10:48	10/10/24 19:05	1
Xylenes, Total	ND		0.096		mg/Kg		10/08/24 10:48	10/10/24 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*10/08/24 10:48*	*10/10/24 19:05*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6		mg/Kg		10/08/24 11:46	10/08/24 20:19	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		10/08/24 11:46	10/08/24 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*10/08/24 11:46*	*10/08/24 20:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77**		60		mg/Kg		10/08/24 12:40	10/08/24 18:55	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-13884/1-A
Matrix: Solid
Analysis Batch: 14083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13884

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		10/08/24 10:48	10/10/24 10:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*10/08/24 10:48*	*10/10/24 10:39*	*1*

Lab Sample ID: LCS 885-13884/2-A
Matrix: Solid
Analysis Batch: 14083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13884

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	23.8		mg/Kg		95	70 - 130		

Surrogate			*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			*205*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-13884/1-A
Matrix: Solid
Analysis Batch: 14084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13884

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/08/24 10:48	10/10/24 10:39	1
Ethylbenzene	ND		0.050		mg/Kg		10/08/24 10:48	10/10/24 10:39	1
Toluene	ND		0.050		mg/Kg		10/08/24 10:48	10/10/24 10:39	1
Xylenes, Total	ND		0.10		mg/Kg		10/08/24 10:48	10/10/24 10:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*10/08/24 10:48*	*10/10/24 10:39*	*1*

Lab Sample ID: LCS 885-13884/3-A
Matrix: Solid
Analysis Batch: 14084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13884

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.983		mg/Kg		98	70 - 130		
Ethylbenzene			1.00	0.988		mg/Kg		99	70 - 130		
Toluene			1.00	0.961		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene			2.00	1.96		mg/Kg		98	70 - 130		
o-Xylene			1.00	0.962		mg/Kg		96	70 - 130		

Surrogate			*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			*107*		*48 - 145*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-13886/1-A
Matrix: Solid
Analysis Batch: 13871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13886

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		10/08/24 11:46	10/08/24 17:23	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/08/24 11:46	10/08/24 17:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*10/08/24 11:46*	*10/08/24 17:23*	*1*

Lab Sample ID: LCS 885-13886/2-A
Matrix: Solid
Analysis Batch: 13871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13886

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	42.4		mg/Kg		85	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-13889/1-A
Matrix: Solid
Analysis Batch: 13948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13889

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		10/08/24 12:40	10/08/24 14:36	1

Lab Sample ID: LCS 885-13889/2-A
Matrix: Solid
Analysis Batch: 13948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13889

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.3		mg/Kg		98	90 - 110		

Lab Sample ID: MRL 885-13984/61
Matrix: Solid
Analysis Batch: 13984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.530		mg/L		106	50 - 150		

QC Association Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-13233-1
Project/Site: Roy SWD #3

GC VOA

Prep Batch: 13884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13233-1	TB-B4A	Total/NA	Solid	5030C	
885-13233-2	TB-B14A	Total/NA	Solid	5030C	
885-13233-3	TB-B20B	Total/NA	Solid	5030C	
885-13233-4	TB-35A	Total/NA	Solid	5030C	
885-13233-5	TB-B36A	Total/NA	Solid	5030C	
885-13233-6	TB-B27A	Total/NA	Solid	5030C	
885-13233-7	TB-B38A	Total/NA	Solid	5030C	
885-13233-8	TB-B39	Total/NA	Solid	5030C	
885-13233-9	TB-B40	Total/NA	Solid	5030C	
885-13233-10	TB-B45	Total/NA	Solid	5030C	
MB 885-13884/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-13884/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-13884/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 14083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13233-1	TB-B4A	Total/NA	Solid	8015M/D	13884
885-13233-2	TB-B14A	Total/NA	Solid	8015M/D	13884
885-13233-3	TB-B20B	Total/NA	Solid	8015M/D	13884
885-13233-4	TB-35A	Total/NA	Solid	8015M/D	13884
885-13233-5	TB-B36A	Total/NA	Solid	8015M/D	13884
885-13233-6	TB-B27A	Total/NA	Solid	8015M/D	13884
885-13233-7	TB-B38A	Total/NA	Solid	8015M/D	13884
885-13233-8	TB-B39	Total/NA	Solid	8015M/D	13884
885-13233-9	TB-B40	Total/NA	Solid	8015M/D	13884
885-13233-10	TB-B45	Total/NA	Solid	8015M/D	13884
MB 885-13884/1-A	Method Blank	Total/NA	Solid	8015M/D	13884
LCS 885-13884/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	13884

Analysis Batch: 14084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13233-1	TB-B4A	Total/NA	Solid	8021B	13884
885-13233-2	TB-B14A	Total/NA	Solid	8021B	13884
885-13233-3	TB-B20B	Total/NA	Solid	8021B	13884
885-13233-4	TB-35A	Total/NA	Solid	8021B	13884
885-13233-5	TB-B36A	Total/NA	Solid	8021B	13884
885-13233-6	TB-B27A	Total/NA	Solid	8021B	13884
885-13233-7	TB-B38A	Total/NA	Solid	8021B	13884
885-13233-8	TB-B39	Total/NA	Solid	8021B	13884
885-13233-9	TB-B40	Total/NA	Solid	8021B	13884
885-13233-10	TB-B45	Total/NA	Solid	8021B	13884
MB 885-13884/1-A	Method Blank	Total/NA	Solid	8021B	13884
LCS 885-13884/3-A	Lab Control Sample	Total/NA	Solid	8021B	13884

GC Semi VOA

Analysis Batch: 13871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13233-1	TB-B4A	Total/NA	Solid	8015M/D	13886
885-13233-2	TB-B14A	Total/NA	Solid	8015M/D	13886
885-13233-3	TB-B20B	Total/NA	Solid	8015M/D	13886

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

GC Semi VOA (Continued)

Analysis Batch: 13871 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13233-4	TB-35A	Total/NA	Solid	8015M/D	13886
885-13233-5	TB-B36A	Total/NA	Solid	8015M/D	13886
885-13233-6	TB-B27A	Total/NA	Solid	8015M/D	13886
885-13233-7	TB-B38A	Total/NA	Solid	8015M/D	13886
885-13233-8	TB-B39	Total/NA	Solid	8015M/D	13886
885-13233-9	TB-B40	Total/NA	Solid	8015M/D	13886
885-13233-10	TB-B45	Total/NA	Solid	8015M/D	13886
MB 885-13886/1-A	Method Blank	Total/NA	Solid	8015M/D	13886
LCS 885-13886/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	13886

Prep Batch: 13886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13233-1	TB-B4A	Total/NA	Solid	SHAKE	
885-13233-2	TB-B14A	Total/NA	Solid	SHAKE	
885-13233-3	TB-B20B	Total/NA	Solid	SHAKE	
885-13233-4	TB-35A	Total/NA	Solid	SHAKE	
885-13233-5	TB-B36A	Total/NA	Solid	SHAKE	
885-13233-6	TB-B27A	Total/NA	Solid	SHAKE	
885-13233-7	TB-B38A	Total/NA	Solid	SHAKE	
885-13233-8	TB-B39	Total/NA	Solid	SHAKE	
885-13233-9	TB-B40	Total/NA	Solid	SHAKE	
885-13233-10	TB-B45	Total/NA	Solid	SHAKE	
MB 885-13886/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-13886/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 13889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13233-1	TB-B4A	Total/NA	Solid	300_Prep	
885-13233-2	TB-B14A	Total/NA	Solid	300_Prep	
885-13233-3	TB-B20B	Total/NA	Solid	300_Prep	
885-13233-4	TB-35A	Total/NA	Solid	300_Prep	
885-13233-5	TB-B36A	Total/NA	Solid	300_Prep	
885-13233-6	TB-B27A	Total/NA	Solid	300_Prep	
885-13233-7	TB-B38A	Total/NA	Solid	300_Prep	
885-13233-8	TB-B39	Total/NA	Solid	300_Prep	
885-13233-9	TB-B40	Total/NA	Solid	300_Prep	
885-13233-10	TB-B45	Total/NA	Solid	300_Prep	
MB 885-13889/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-13889/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 13948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13233-1	TB-B4A	Total/NA	Solid	300.0	13889
885-13233-2	TB-B14A	Total/NA	Solid	300.0	13889
885-13233-3	TB-B20B	Total/NA	Solid	300.0	13889
885-13233-5	TB-B36A	Total/NA	Solid	300.0	13889
885-13233-7	TB-B38A	Total/NA	Solid	300.0	13889
885-13233-8	TB-B39	Total/NA	Solid	300.0	13889
885-13233-9	TB-B40	Total/NA	Solid	300.0	13889

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

HPLC/IC (Continued)

Analysis Batch: 13948 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13233-10	TB-B45	Total/NA	Solid	300.0	13889
MB 885-13889/1-A	Method Blank	Total/NA	Solid	300.0	13889
LCS 885-13889/2-A	Lab Control Sample	Total/NA	Solid	300.0	13889

Analysis Batch: 13984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13233-4	TB-35A	Total/NA	Solid	300.0	13889
885-13233-6	TB-B27A	Total/NA	Solid	300.0	13889
MRL 885-13984/61	Lab Control Sample	Total/NA	Solid	300.0	

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Client Sample ID: TB-B4A

Lab Sample ID: 885-13233-1

Date Collected: 10/03/24 13:30
Date Received: 10/05/24 09:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/10/24 15:34
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/10/24 15:34
Total/NA	Prep	SHAKE			13886	KR	EET ALB	10/08/24 11:46
Total/NA	Analysis	8015M/D		1	13871	KR	EET ALB	10/08/24 18:28
Total/NA	Prep	300_Prep			13889	JT	EET ALB	10/08/24 12:40
Total/NA	Analysis	300.0		20	13948	EH	EET ALB	10/08/24 17:04

Client Sample ID: TB-B14A

Lab Sample ID: 885-13233-2

Date Collected: 10/03/24 13:32
Date Received: 10/05/24 09:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/10/24 15:57
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/10/24 15:57
Total/NA	Prep	SHAKE			13886	KR	EET ALB	10/08/24 11:46
Total/NA	Analysis	8015M/D		1	13871	KR	EET ALB	10/08/24 18:50
Total/NA	Prep	300_Prep			13889	JT	EET ALB	10/08/24 12:40
Total/NA	Analysis	300.0		20	13948	EH	EET ALB	10/08/24 17:16

Client Sample ID: TB-B20B

Lab Sample ID: 885-13233-3

Date Collected: 10/03/24 13:34
Date Received: 10/05/24 09:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/10/24 16:20
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/10/24 16:20
Total/NA	Prep	SHAKE			13886	KR	EET ALB	10/08/24 11:46
Total/NA	Analysis	8015M/D		1	13871	KR	EET ALB	10/08/24 19:01
Total/NA	Prep	300_Prep			13889	JT	EET ALB	10/08/24 12:40
Total/NA	Analysis	300.0		20	13948	EH	EET ALB	10/08/24 17:29

Client Sample ID: TB-35A

Lab Sample ID: 885-13233-4

Date Collected: 10/03/24 13:40
Date Received: 10/05/24 09:00

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/10/24 16:44

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Client Sample ID: TB-35A

Lab Sample ID: 885-13233-4

Date Collected: 10/03/24 13:40
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/10/24 16:44
Total/NA	Prep	SHAKE			13886	KR	EET ALB	10/08/24 11:46
Total/NA	Analysis	8015M/D		1	13871	KR	EET ALB	10/08/24 19:13
Total/NA	Prep	300_Prep			13889	JT	EET ALB	10/08/24 12:40
Total/NA	Analysis	300.0		50	13984	EH	EET ALB	10/09/24 19:27

Client Sample ID: TB-B36A

Lab Sample ID: 885-13233-5

Date Collected: 10/03/24 13:46
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/10/24 17:07
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/10/24 17:07
Total/NA	Prep	SHAKE			13886	KR	EET ALB	10/08/24 11:46
Total/NA	Analysis	8015M/D		1	13871	KR	EET ALB	10/08/24 19:24
Total/NA	Prep	300_Prep			13889	JT	EET ALB	10/08/24 12:40
Total/NA	Analysis	300.0		20	13948	EH	EET ALB	10/08/24 17:54

Client Sample ID: TB-B27A

Lab Sample ID: 885-13233-6

Date Collected: 10/03/24 14:00
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/10/24 17:31
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/10/24 17:31
Total/NA	Prep	SHAKE			13886	KR	EET ALB	10/08/24 11:46
Total/NA	Analysis	8015M/D		1	13871	KR	EET ALB	10/08/24 19:35
Total/NA	Prep	300_Prep			13889	JT	EET ALB	10/08/24 12:40
Total/NA	Analysis	300.0		100	13984	EH	EET ALB	10/09/24 20:41

Client Sample ID: TB-B38A

Lab Sample ID: 885-13233-7

Date Collected: 10/03/24 14:02
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/10/24 17:54
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/10/24 17:54

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-13233-1

Client Sample ID: TB-B38A
Lab Sample ID: 885-13233-7
Date Collected: 10/03/24 14:02
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			13886	KR	EET ALB	10/08/24 11:46
Total/NA	Analysis	8015M/D		1	13871	KR	EET ALB	10/08/24 19:46
Total/NA	Prep	300_Prep			13889	JT	EET ALB	10/08/24 12:40
Total/NA	Analysis	300.0		20	13948	EH	EET ALB	10/08/24 18:18

Client Sample ID: TB-B39
Lab Sample ID: 885-13233-8
Date Collected: 10/03/24 14:04
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/10/24 18:18
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/10/24 18:18
Total/NA	Prep	SHAKE			13886	KR	EET ALB	10/08/24 11:46
Total/NA	Analysis	8015M/D		1	13871	KR	EET ALB	10/08/24 19:57
Total/NA	Prep	300_Prep			13889	JT	EET ALB	10/08/24 12:40
Total/NA	Analysis	300.0		20	13948	EH	EET ALB	10/08/24 18:31

Client Sample ID: TB-B40
Lab Sample ID: 885-13233-9
Date Collected: 10/03/24 14:06
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/10/24 18:41
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/10/24 18:41
Total/NA	Prep	SHAKE			13886	KR	EET ALB	10/08/24 11:46
Total/NA	Analysis	8015M/D		1	13871	KR	EET ALB	10/08/24 20:08
Total/NA	Prep	300_Prep			13889	JT	EET ALB	10/08/24 12:40
Total/NA	Analysis	300.0		20	13948	EH	EET ALB	10/08/24 18:43

Client Sample ID: TB-B45
Lab Sample ID: 885-13233-10
Date Collected: 10/03/24 14:10
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8015M/D		1	14083	JP	EET ALB	10/10/24 19:05
Total/NA	Prep	5030C			13884	JP	EET ALB	10/08/24 10:48
Total/NA	Analysis	8021B		1	14084	JP	EET ALB	10/10/24 19:05
Total/NA	Prep	SHAKE			13886	KR	EET ALB	10/08/24 11:46
Total/NA	Analysis	8015M/D		1	13871	KR	EET ALB	10/08/24 20:19

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-13233-1
Project/Site: Roy SWD #3

Client Sample ID: TB-B45
Lab Sample ID: 885-13233-10

Date Collected: 10/03/24 14:10
Matrix: Solid
Date Received: 10/05/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			13889	JT	EET ALB	10/08/24 12:40
Total/NA	Analysis	300.0		20	13948	EH	EET ALB	10/08/24 18:55

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-13233-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(Including CF): 5.4 +0 = 5.4 °C

HALL ENVIRONM
ANALYSIS LABOR
4901 Hawkins NE - Albuquerque, NM 8710
Tel. 505-345-3975 Fax 505-345-4107

885-13233 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10/3/24	1330	SOIL	~~TB-A4~~ TB-B4A	1x4oz Jar	ICE	1	X	X	X
	1332		TB-B14A			2			
	1334		TB-B20B			3			
	1340		TB-B35A			4			
	1346		TB-B36A			5			
	1406		TB-B27A			6			
	1402		TB-B38A			7			
	1404		TB-B39			8			
	1406		TB-B40			9			
	1410		TB-B45			10			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/4/24	0845				10/4/24	845
10/4/24	1900			courier	10/5/24	9:00

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Received by OCD: 6/19/2025 8:41:42 AM

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-13233-1

Login Number: 13233 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 10/24/2024 12:58:32 PM

JOB DESCRIPTION

ROY SWD #3

JOB NUMBER

885-13994-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
10/24/2024 12:58:32 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: ROY SWD #3

Laboratory Job ID: 885-13994-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-13994-1
Project/Site: ROY SWD #3

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: ROY SWD #3

Job ID: 885-13994-1

Job ID: 885-13994-1 Eurofins Albuquerque

Job Narrative
885-13994-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/19/2024 11:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-14629 and analytical batch 885-14585 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: ROY SWD #3

Job ID: 885-13994-1

Client Sample ID: TB-B4B

Date Collected: 10/17/24 13:10
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13994-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/21/24 10:29	10/22/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*10/21/24 10:29*	*10/22/24 18:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/21/24 10:29	10/22/24 18:51	1
Ethylbenzene	ND		0.049		mg/Kg		10/21/24 10:29	10/22/24 18:51	1
Toluene	ND		0.049		mg/Kg		10/21/24 10:29	10/22/24 18:51	1
Xylenes, Total	ND		0.098		mg/Kg		10/21/24 10:29	10/22/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*10/21/24 10:29*	*10/22/24 18:51*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		10/21/24 12:47	10/21/24 18:29	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/21/24 12:47	10/21/24 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*10/21/24 12:47*	*10/21/24 18:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		60		mg/Kg		10/21/24 14:25	10/22/24 03:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: ROY SWD #3

Job ID: 885-13994-1

Client Sample ID: TB-B20C

Date Collected: 10/17/24 13:14
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13994-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		10/21/24 10:29	10/22/24 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*10/21/24 10:29*	*10/22/24 20:02*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		10/21/24 10:29	10/22/24 20:02	1
Ethylbenzene	ND		0.047		mg/Kg		10/21/24 10:29	10/22/24 20:02	1
Toluene	ND		0.047		mg/Kg		10/21/24 10:29	10/22/24 20:02	1
Xylenes, Total	ND		0.094		mg/Kg		10/21/24 10:29	10/22/24 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*10/21/24 10:29*	*10/22/24 20:02*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		10/21/24 12:47	10/21/24 18:41	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/21/24 12:47	10/21/24 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*10/21/24 12:47*	*10/21/24 18:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		60		mg/Kg		10/21/24 14:25	10/22/24 04:07	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: ROY SWD #3

Job ID: 885-13994-1

Client Sample ID: TB-B27B

Date Collected: 10/17/24 13:20
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13994-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/21/24 10:29	10/22/24 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*10/21/24 10:29*	*10/22/24 21:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/21/24 10:29	10/22/24 21:13	1
Ethylbenzene	ND		0.049		mg/Kg		10/21/24 10:29	10/22/24 21:13	1
Toluene	ND		0.049		mg/Kg		10/21/24 10:29	10/22/24 21:13	1
Xylenes, Total	ND		0.099		mg/Kg		10/21/24 10:29	10/22/24 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*10/21/24 10:29*	*10/22/24 21:13*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		10/21/24 12:47	10/21/24 18:54	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/21/24 12:47	10/21/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*10/21/24 12:47*	*10/21/24 18:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		10/21/24 14:25	10/22/24 04:18	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: ROY SWD #3

Job ID: 885-13994-1

Client Sample ID: TB-B35B

Date Collected: 10/17/24 13:22
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13994-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		10/21/24 10:29	10/22/24 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*10/21/24 10:29*	*10/22/24 21:37*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/21/24 10:29	10/22/24 21:37	1
Ethylbenzene	ND		0.047		mg/Kg		10/21/24 10:29	10/22/24 21:37	1
Toluene	ND		0.047		mg/Kg		10/21/24 10:29	10/22/24 21:37	1
Xylenes, Total	ND		0.095		mg/Kg		10/21/24 10:29	10/22/24 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*10/21/24 10:29*	*10/22/24 21:37*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		10/21/24 12:47	10/21/24 19:07	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/21/24 12:47	10/21/24 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*10/21/24 12:47*	*10/21/24 19:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		60		mg/Kg		10/21/24 14:25	10/22/24 04:29	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: ROY SWD #3

Job ID: 885-13994-1

Client Sample ID: TB-B36B

Date Collected: 10/17/24 13:24
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13994-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		10/21/24 10:29	10/22/24 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*10/21/24 10:29*	*10/22/24 22:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/21/24 10:29	10/22/24 22:00	1
Ethylbenzene	ND		0.047		mg/Kg		10/21/24 10:29	10/22/24 22:00	1
Toluene	ND		0.047		mg/Kg		10/21/24 10:29	10/22/24 22:00	1
Xylenes, Total	ND		0.094		mg/Kg		10/21/24 10:29	10/22/24 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*10/21/24 10:29*	*10/22/24 22:00*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		10/21/24 12:47	10/21/24 19:20	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/21/24 12:47	10/21/24 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*10/21/24 12:47*	*10/21/24 19:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**330**		60		mg/Kg		10/21/24 14:25	10/22/24 04:40	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: ROY SWD #3

Job ID: 885-13994-1

Client Sample ID: TB-B37A

Date Collected: 10/17/24 13:26
Date Received: 10/19/24 11:35

Lab Sample ID: 885-13994-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		10/21/24 10:29	10/22/24 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*10/21/24 10:29*	*10/22/24 22:24*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/21/24 10:29	10/22/24 22:24	1
Ethylbenzene	ND		0.049		mg/Kg		10/21/24 10:29	10/22/24 22:24	1
Toluene	ND		0.049		mg/Kg		10/21/24 10:29	10/22/24 22:24	1
Xylenes, Total	ND		0.098		mg/Kg		10/21/24 10:29	10/22/24 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*10/21/24 10:29*	*10/22/24 22:24*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		10/21/24 12:47	10/21/24 19:33	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		10/21/24 12:47	10/21/24 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*10/21/24 12:47*	*10/21/24 19:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		10/21/24 14:25	10/22/24 04:50	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: ROY SWD #3

Job ID: 885-13994-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: LCS 885-14592/2-A
Matrix: Solid
Analysis Batch: 14740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14592

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.6		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*202*		*35 - 166*

Lab Sample ID: 885-13994-1 MS
Matrix: Solid
Analysis Batch: 14740

Client Sample ID: TB-B4B
Prep Type: Total/NA
Prep Batch: 14592

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.6	28.1		mg/Kg		114	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*212*		*35 - 166*

Lab Sample ID: 885-13994-1 MSD
Matrix: Solid
Analysis Batch: 14740

Client Sample ID: TB-B4B
Prep Type: Total/NA
Prep Batch: 14592

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.6	27.9		mg/Kg		113	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*212*		*35 - 166*

Lab Sample ID: MB 885-4592/1-A
Matrix: Solid
Analysis Batch: 14740

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4592

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		05/08/24 12:36	10/22/24 17:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*05/08/24 12:36*	*10/22/24 17:40*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 885-14592/3-A
Matrix: Solid
Analysis Batch: 14741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14592

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.08		mg/Kg		108	70 - 130		
Ethylbenzene			1.00	1.08		mg/Kg		108	70 - 130		
Toluene			1.00	1.09		mg/Kg		109	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: ROY SWD #3

Job ID: 885-13994-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-14592/3-A
Matrix: Solid
Analysis Batch: 14741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14592

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	2.00	2.13		mg/Kg		107	70 - 130
o-Xylene	1.00	1.05		mg/Kg		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*

Lab Sample ID: 885-13994-2 MS
Matrix: Solid
Analysis Batch: 14741

Client Sample ID: TB-B20C
Prep Type: Total/NA
Prep Batch: 14592

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.943	1.09		mg/Kg		116	70 - 130
Ethylbenzene	ND		0.943	1.12		mg/Kg		118	70 - 130
Toluene	ND		0.943	1.10		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	ND		1.89	2.20		mg/Kg		117	70 - 130
o-Xylene	ND		0.943	1.10		mg/Kg		117	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*

Lab Sample ID: 885-13994-2 MSD
Matrix: Solid
Analysis Batch: 14741

Client Sample ID: TB-B20C
Prep Type: Total/NA
Prep Batch: 14592

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.940	1.10		mg/Kg		117	70 - 130	1	20
Ethylbenzene	ND		0.940	1.14		mg/Kg		121	70 - 130	2	20
Toluene	ND		0.940	1.11		mg/Kg		118	70 - 130	2	20
m-Xylene & p-Xylene	ND		1.88	2.24		mg/Kg		119	70 - 130	2	20
o-Xylene	ND		0.940	1.10		mg/Kg		117	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*

Lab Sample ID: MB 885-4592/1-A
Matrix: Solid
Analysis Batch: 14741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4592

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/08/24 12:36	10/22/24 17:40	1
Ethylbenzene	ND		0.050		mg/Kg		05/08/24 12:36	10/22/24 17:40	1
Toluene	ND		0.050		mg/Kg		05/08/24 12:36	10/22/24 17:40	1
Xylenes, Total	ND		0.10		mg/Kg		05/08/24 12:36	10/22/24 17:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*05/08/24 12:36*	*10/22/24 17:40*	*1*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: ROY SWD #3

Job ID: 885-13994-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-14629/1-A
Matrix: Solid
Analysis Batch: 14585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14629

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		10/21/24 12:47	10/21/24 14:39	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/21/24 12:47	10/21/24 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*10/21/24 12:47*	*10/21/24 14:39*	*1*

Lab Sample ID: LCS 885-14629/2-A
Matrix: Solid
Analysis Batch: 14585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14629

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	45.8		mg/Kg		92	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-14640/1-A
Matrix: Solid
Analysis Batch: 14643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14640

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		10/21/24 14:25	10/22/24 00:08	1

Lab Sample ID: LCS 885-14640/2-A
Matrix: Solid
Analysis Batch: 14643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14640

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.3		mg/Kg		101	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: ROY SWD #3

Job ID: 885-13994-1

GC VOA

Prep Batch: 4592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-4592/1-A	Method Blank	Total/NA	Solid	5030C	

Prep Batch: 14592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13994-1	TB-B4B	Total/NA	Solid	5030C	
885-13994-2	TB-B20C	Total/NA	Solid	5030C	
885-13994-3	TB-B27B	Total/NA	Solid	5030C	
885-13994-4	TB-B35B	Total/NA	Solid	5030C	
885-13994-5	TB-B36B	Total/NA	Solid	5030C	
885-13994-6	TB-B37A	Total/NA	Solid	5030C	
LCS 885-14592/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-14592/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-13994-1 MS	TB-B4B	Total/NA	Solid	5030C	
885-13994-1 MSD	TB-B4B	Total/NA	Solid	5030C	
885-13994-2 MS	TB-B20C	Total/NA	Solid	5030C	
885-13994-2 MSD	TB-B20C	Total/NA	Solid	5030C	

Analysis Batch: 14740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13994-1	TB-B4B	Total/NA	Solid	8015M/D	14592
885-13994-2	TB-B20C	Total/NA	Solid	8015M/D	14592
885-13994-3	TB-B27B	Total/NA	Solid	8015M/D	14592
885-13994-4	TB-B35B	Total/NA	Solid	8015M/D	14592
885-13994-5	TB-B36B	Total/NA	Solid	8015M/D	14592
885-13994-6	TB-B37A	Total/NA	Solid	8015M/D	14592
MB 885-4592/1-A	Method Blank	Total/NA	Solid	8015M/D	4592
LCS 885-14592/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	14592
885-13994-1 MS	TB-B4B	Total/NA	Solid	8015M/D	14592
885-13994-1 MSD	TB-B4B	Total/NA	Solid	8015M/D	14592

Analysis Batch: 14741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13994-1	TB-B4B	Total/NA	Solid	8021B	14592
885-13994-2	TB-B20C	Total/NA	Solid	8021B	14592
885-13994-3	TB-B27B	Total/NA	Solid	8021B	14592
885-13994-4	TB-B35B	Total/NA	Solid	8021B	14592
885-13994-5	TB-B36B	Total/NA	Solid	8021B	14592
885-13994-6	TB-B37A	Total/NA	Solid	8021B	14592
MB 885-4592/1-A	Method Blank	Total/NA	Solid	8021B	4592
LCS 885-14592/3-A	Lab Control Sample	Total/NA	Solid	8021B	14592
885-13994-2 MS	TB-B20C	Total/NA	Solid	8021B	14592
885-13994-2 MSD	TB-B20C	Total/NA	Solid	8021B	14592

GC Semi VOA

Analysis Batch: 14585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13994-1	TB-B4B	Total/NA	Solid	8015M/D	14629
885-13994-2	TB-B20C	Total/NA	Solid	8015M/D	14629
885-13994-3	TB-B27B	Total/NA	Solid	8015M/D	14629
885-13994-4	TB-B35B	Total/NA	Solid	8015M/D	14629

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: ROY SWD #3

Job ID: 885-13994-1

GC Semi VOA (Continued)

Analysis Batch: 14585 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13994-5	TB-B36B	Total/NA	Solid	8015M/D	14629
885-13994-6	TB-B37A	Total/NA	Solid	8015M/D	14629
MB 885-14629/1-A	Method Blank	Total/NA	Solid	8015M/D	14629
LCS 885-14629/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	14629

Prep Batch: 14629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13994-1	TB-B4B	Total/NA	Solid	SHAKE	
885-13994-2	TB-B20C	Total/NA	Solid	SHAKE	
885-13994-3	TB-B27B	Total/NA	Solid	SHAKE	
885-13994-4	TB-B35B	Total/NA	Solid	SHAKE	
885-13994-5	TB-B36B	Total/NA	Solid	SHAKE	
885-13994-6	TB-B37A	Total/NA	Solid	SHAKE	
MB 885-14629/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-14629/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 14640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13994-1	TB-B4B	Total/NA	Solid	300_Prep	
885-13994-2	TB-B20C	Total/NA	Solid	300_Prep	
885-13994-3	TB-B27B	Total/NA	Solid	300_Prep	
885-13994-4	TB-B35B	Total/NA	Solid	300_Prep	
885-13994-5	TB-B36B	Total/NA	Solid	300_Prep	
885-13994-6	TB-B37A	Total/NA	Solid	300_Prep	
MB 885-14640/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-14640/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 14643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13994-1	TB-B4B	Total/NA	Solid	300.0	14640
885-13994-2	TB-B20C	Total/NA	Solid	300.0	14640
885-13994-3	TB-B27B	Total/NA	Solid	300.0	14640
885-13994-4	TB-B35B	Total/NA	Solid	300.0	14640
885-13994-5	TB-B36B	Total/NA	Solid	300.0	14640
885-13994-6	TB-B37A	Total/NA	Solid	300.0	14640
MB 885-14640/1-A	Method Blank	Total/NA	Solid	300.0	14640
LCS 885-14640/2-A	Lab Control Sample	Total/NA	Solid	300.0	14640

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-13994-1
Project/Site: ROY SWD #3

Client Sample ID: TB-B4B
Lab Sample ID: 885-13994-1
Date Collected: 10/17/24 13:10
Matrix: Solid
Date Received: 10/19/24 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/22/24 18:51
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/22/24 18:51
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 18:29
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 03:13

Client Sample ID: TB-B20C
Lab Sample ID: 885-13994-2
Date Collected: 10/17/24 13:14
Matrix: Solid
Date Received: 10/19/24 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/22/24 20:02
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/22/24 20:02
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 18:41
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 04:07

Client Sample ID: TB-B27B
Lab Sample ID: 885-13994-3
Date Collected: 10/17/24 13:20
Matrix: Solid
Date Received: 10/19/24 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/22/24 21:13
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/22/24 21:13
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 18:54
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 04:18

Client Sample ID: TB-B35B
Lab Sample ID: 885-13994-4
Date Collected: 10/17/24 13:22
Matrix: Solid
Date Received: 10/19/24 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/22/24 21:37

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: ROY SWD #3

Job ID: 885-13994-1

Client Sample ID: TB-B35B

Lab Sample ID: 885-13994-4
Matrix: Solid
Date Collected: 10/17/24 13:22
Date Received: 10/19/24 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/22/24 21:37
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 19:07
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 04:29

Client Sample ID: TB-B36B

Lab Sample ID: 885-13994-5
Matrix: Solid
Date Collected: 10/17/24 13:24
Date Received: 10/19/24 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/22/24 22:00
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/22/24 22:00
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 19:20
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 04:40

Client Sample ID: TB-B37A

Lab Sample ID: 885-13994-6
Matrix: Solid
Date Collected: 10/17/24 13:26
Date Received: 10/19/24 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8015M/D		1	14740	JP	EET ALB	10/22/24 22:24
Total/NA	Prep	5030C			14592	JP	EET ALB	10/21/24 10:29
Total/NA	Analysis	8021B		1	14741	JP	EET ALB	10/22/24 22:24
Total/NA	Prep	SHAKE			14629	KR	EET ALB	10/21/24 12:47
Total/NA	Analysis	8015M/D		1	14585	KR	EET ALB	10/21/24 19:33
Total/NA	Prep	300_Prep			14640	EH	EET ALB	10/21/24 14:25
Total/NA	Analysis	300.0		20	14643	EH	EET ALB	10/22/24 04:50

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-13994-1
Project/Site: ROY SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez mgo

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.4-0.1=0.3

HALL ENVIRONMENTAL ANALYSIS LABOR

4901 Hawkins NE - Albuquerque, NM 8710

Tel. 505-345-3975 Fax 505-345-4107

885-13994 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10/17/24	1316	SOIL	TB-B4A	1x4oz Jar	ICE	1	X	X	X
"	1314	"	TB-B20C	"	"	2	"	"	"
"	1326	"	TB-B27B	"	"	3	"	"	"
"	1322	"	TB-B35B	"	"	4	"	"	"
"	1324	"	TB-B36B	"	"	5	"	"	"
"	1326	"	TB-B37A	"	"	6	"	"	"

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/18/24	850				10/18/24	850
Date:	Time:	Relinquished by:	Received by:	Via: courier	Date	Time
					10/19/24	11:35

Remarks: Bill to EOG ~~Artesia~~ Midland

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc

Job Number: 885-13994-1

Login Number: 13994

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 11/12/2024 9:41:50 AM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-14636-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
11/12/2024 9:41:50 AM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-14636-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-14636-1
Project/Site: Roy SWD #3

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-14636-1

Job ID: 885-14636-1 Eurofins Albuquerque

Job Narrative
885-14636-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/2/2024 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 885-15342 and analytical batch 885-15384 were outside control limits for one or more analytes. See QC Sample Results for detail. Mis-spike of MSD is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 885-15331 and analytical batch 885-15394 recovered outside control limits for the following analytes: Diesel Range Organics [C10-C28]. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8015D_DRO: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 885-15348 and analytical batch 885-15394 recovered outside control limits for the following analytes: Diesel Range Organics [C10-C28]. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W18

Date Collected: 11/01/24 08:50
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/04/24 10:35	11/07/24 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*11/04/24 10:35*	*11/07/24 18:44*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 10:35	11/07/24 18:44	1
Ethylbenzene	ND		0.050		mg/Kg		11/04/24 10:35	11/07/24 18:44	1
Toluene	ND		0.050		mg/Kg		11/04/24 10:35	11/07/24 18:44	1
Xylenes, Total	ND		0.099		mg/Kg		11/04/24 10:35	11/07/24 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*11/04/24 10:35*	*11/07/24 18:44*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.5		mg/Kg		11/04/24 11:56	11/05/24 14:34	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/04/24 11:56	11/05/24 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*11/04/24 11:56*	*11/05/24 14:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		11/04/24 14:21	11/04/24 15:24	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W19

Date Collected: 11/01/24 08:54
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/04/24 10:35	11/07/24 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*11/04/24 10:35*	*11/07/24 19:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 10:35	11/07/24 19:54	1
Ethylbenzene	ND		0.050		mg/Kg		11/04/24 10:35	11/07/24 19:54	1
Toluene	ND		0.050		mg/Kg		11/04/24 10:35	11/07/24 19:54	1
Xylenes, Total	ND		0.10		mg/Kg		11/04/24 10:35	11/07/24 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*11/04/24 10:35*	*11/07/24 19:54*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.5		mg/Kg		11/04/24 11:56	11/05/24 14:45	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/04/24 11:56	11/05/24 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*11/04/24 11:56*	*11/05/24 14:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92**		60		mg/Kg		11/04/24 14:21	11/04/24 15:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W20

Date Collected: 11/01/24 09:00
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/04/24 10:35	11/07/24 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*11/04/24 10:35*	*11/07/24 21:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 10:35	11/07/24 21:04	1
Ethylbenzene	ND		0.050		mg/Kg		11/04/24 10:35	11/07/24 21:04	1
Toluene	ND		0.050		mg/Kg		11/04/24 10:35	11/07/24 21:04	1
Xylenes, Total	ND		0.099		mg/Kg		11/04/24 10:35	11/07/24 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*11/04/24 10:35*	*11/07/24 21:04*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.4		mg/Kg		11/04/24 11:56	11/05/24 14:55	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		11/04/24 11:56	11/05/24 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*11/04/24 11:56*	*11/05/24 14:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		60		mg/Kg		11/04/24 14:21	11/04/24 16:43	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W21

Date Collected: 11/01/24 09:02
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 10:35	11/07/24 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*11/04/24 10:35*	*11/07/24 21:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 10:35	11/07/24 21:27	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 10:35	11/07/24 21:27	1
Toluene	ND		0.049		mg/Kg		11/04/24 10:35	11/07/24 21:27	1
Xylenes, Total	ND		0.099		mg/Kg		11/04/24 10:35	11/07/24 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*11/04/24 10:35*	*11/07/24 21:27*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.6		mg/Kg		11/04/24 11:56	11/05/24 15:06	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/04/24 11:56	11/05/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*11/04/24 11:56*	*11/05/24 15:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**400**		60		mg/Kg		11/04/24 14:21	11/04/24 16:53	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W22

Date Collected: 11/01/24 09:04
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 10:35	11/07/24 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*11/04/24 10:35*	*11/07/24 21:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 10:35	11/07/24 21:51	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 10:35	11/07/24 21:51	1
Toluene	ND		0.049		mg/Kg		11/04/24 10:35	11/07/24 21:51	1
Xylenes, Total	ND		0.097		mg/Kg		11/04/24 10:35	11/07/24 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*11/04/24 10:35*	*11/07/24 21:51*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.5		mg/Kg		11/04/24 11:56	11/05/24 15:17	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/04/24 11:56	11/05/24 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*11/04/24 11:56*	*11/05/24 15:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		61		mg/Kg		11/04/24 14:21	11/04/24 17:03	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W23

Date Collected: 11/01/24 09:10
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 10:35	11/07/24 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*11/04/24 10:35*	*11/07/24 22:14*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 10:35	11/07/24 22:14	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 10:35	11/07/24 22:14	1
Toluene	ND		0.049		mg/Kg		11/04/24 10:35	11/07/24 22:14	1
Xylenes, Total	ND		0.098		mg/Kg		11/04/24 10:35	11/07/24 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*11/04/24 10:35*	*11/07/24 22:14*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.3		mg/Kg		11/04/24 11:56	11/05/24 15:27	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		11/04/24 11:56	11/05/24 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*11/04/24 11:56*	*11/05/24 15:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		60		mg/Kg		11/04/24 14:21	11/04/24 17:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W24

Date Collected: 11/01/24 09:14
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 10:35	11/07/24 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*11/04/24 10:35*	*11/07/24 22:37*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 10:35	11/07/24 22:37	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 10:35	11/07/24 22:37	1
Toluene	ND		0.049		mg/Kg		11/04/24 10:35	11/07/24 22:37	1
Xylenes, Total	ND		0.098		mg/Kg		11/04/24 10:35	11/07/24 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*11/04/24 10:35*	*11/07/24 22:37*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.6		mg/Kg		11/04/24 11:56	11/05/24 15:38	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/04/24 11:56	11/05/24 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*11/04/24 11:56*	*11/05/24 15:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2100**		61		mg/Kg		11/04/24 14:21	11/04/24 17:23	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W25

Date Collected: 11/01/24 09:22
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-8

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/04/24 10:35	11/07/24 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*11/04/24 10:35*	*11/07/24 23:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/04/24 10:35	11/07/24 23:00	1
Ethylbenzene	ND		0.047		mg/Kg		11/04/24 10:35	11/07/24 23:00	1
Toluene	ND		0.047		mg/Kg		11/04/24 10:35	11/07/24 23:00	1
Xylenes, Total	ND		0.093		mg/Kg		11/04/24 10:35	11/07/24 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*11/04/24 10:35*	*11/07/24 23:00*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.8		mg/Kg		11/04/24 11:56	11/05/24 15:59	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/04/24 11:56	11/05/24 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*11/04/24 11:56*	*11/05/24 15:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2000**		60		mg/Kg		11/04/24 14:21	11/04/24 17:32	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W26

Date Collected: 11/01/24 09:24
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		11/04/24 10:35	11/07/24 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*11/04/24 10:35*	*11/07/24 23:23*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 10:35	11/07/24 23:23	1
Ethylbenzene	ND		0.048		mg/Kg		11/04/24 10:35	11/07/24 23:23	1
Toluene	ND		0.048		mg/Kg		11/04/24 10:35	11/07/24 23:23	1
Xylenes, Total	ND		0.096		mg/Kg		11/04/24 10:35	11/07/24 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*11/04/24 10:35*	*11/07/24 23:23*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.6		mg/Kg		11/04/24 11:56	11/05/24 16:10	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/04/24 11:56	11/05/24 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*11/04/24 11:56*	*11/05/24 16:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**400**		60		mg/Kg		11/04/24 14:21	11/04/24 17:42	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W27

Date Collected: 11/01/24 09:30
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		11/04/24 10:35	11/07/24 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*11/04/24 10:35*	*11/07/24 23:46*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 10:35	11/07/24 23:46	1
Ethylbenzene	ND		0.048		mg/Kg		11/04/24 10:35	11/07/24 23:46	1
Toluene	ND		0.048		mg/Kg		11/04/24 10:35	11/07/24 23:46	1
Xylenes, Total	ND		0.096		mg/Kg		11/04/24 10:35	11/07/24 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*11/04/24 10:35*	*11/07/24 23:46*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.9		mg/Kg		11/04/24 11:56	11/05/24 16:20	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/04/24 11:56	11/05/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*11/04/24 11:56*	*11/05/24 16:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2000**		60		mg/Kg		11/04/24 14:21	11/04/24 17:52	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W28

Date Collected: 11/01/24 09:36
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/04/24 10:35	11/08/24 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*11/04/24 10:35*	*11/08/24 00:33*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/04/24 10:35	11/08/24 00:33	1
Ethylbenzene	ND		0.047		mg/Kg		11/04/24 10:35	11/08/24 00:33	1
Toluene	ND		0.047		mg/Kg		11/04/24 10:35	11/08/24 00:33	1
Xylenes, Total	ND		0.094		mg/Kg		11/04/24 10:35	11/08/24 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*11/04/24 10:35*	*11/08/24 00:33*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.3		mg/Kg		11/04/24 11:56	11/05/24 16:31	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		11/04/24 11:56	11/05/24 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*71*		*62 - 134*	*11/04/24 11:56*	*11/05/24 16:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**420**		60		mg/Kg		11/04/24 14:21	11/04/24 18:22	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W29

Date Collected: 11/01/24 09:42
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-12

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/04/24 10:35	11/08/24 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*11/04/24 10:35*	*11/08/24 00:56*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 10:35	11/08/24 00:56	1
Ethylbenzene	ND		0.047		mg/Kg		11/04/24 10:35	11/08/24 00:56	1
Toluene	ND		0.047		mg/Kg		11/04/24 10:35	11/08/24 00:56	1
Xylenes, Total	ND		0.094		mg/Kg		11/04/24 10:35	11/08/24 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*11/04/24 10:35*	*11/08/24 00:56*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.8		mg/Kg		11/04/24 11:56	11/05/24 16:42	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/04/24 11:56	11/05/24 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*11/04/24 11:56*	*11/05/24 16:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		60		mg/Kg		11/04/24 14:21	11/04/24 18:31	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W30

Date Collected: 11/01/24 09:48
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-13

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 10:35	11/08/24 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*11/04/24 10:35*	*11/08/24 01:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 10:35	11/08/24 01:19	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 10:35	11/08/24 01:19	1
Toluene	ND		0.049		mg/Kg		11/04/24 10:35	11/08/24 01:19	1
Xylenes, Total	ND		0.099		mg/Kg		11/04/24 10:35	11/08/24 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*11/04/24 10:35*	*11/08/24 01:19*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	10		mg/Kg		11/04/24 11:56	11/05/24 16:52	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		11/04/24 11:56	11/05/24 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*82*		*62 - 134*	*11/04/24 11:56*	*11/05/24 16:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**380**		60		mg/Kg		11/04/24 14:21	11/04/24 18:41	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W31

Date Collected: 11/01/24 10:00
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 10:35	11/08/24 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*11/04/24 10:35*	*11/08/24 01:42*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 10:35	11/08/24 01:42	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 10:35	11/08/24 01:42	1
Toluene	ND		0.049		mg/Kg		11/04/24 10:35	11/08/24 01:42	1
Xylenes, Total	ND		0.097		mg/Kg		11/04/24 10:35	11/08/24 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*11/04/24 10:35*	*11/08/24 01:42*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.7		mg/Kg		11/04/24 11:56	11/05/24 17:03	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/04/24 11:56	11/05/24 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*11/04/24 11:56*	*11/05/24 17:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		60		mg/Kg		11/04/24 14:21	11/04/24 18:51	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W32

Date Collected: 11/01/24 10:02
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-15

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/04/24 10:35	11/08/24 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*11/04/24 10:35*	*11/08/24 02:05*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 10:35	11/08/24 02:05	1
Ethylbenzene	ND		0.047		mg/Kg		11/04/24 10:35	11/08/24 02:05	1
Toluene	ND		0.047		mg/Kg		11/04/24 10:35	11/08/24 02:05	1
Xylenes, Total	ND		0.094		mg/Kg		11/04/24 10:35	11/08/24 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*11/04/24 10:35*	*11/08/24 02:05*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.8		mg/Kg		11/04/24 11:56	11/05/24 17:14	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/04/24 11:56	11/05/24 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*11/04/24 11:56*	*11/05/24 17:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2300**		150		mg/Kg		11/04/24 14:21	11/05/24 08:02	50

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W33

Date Collected: 11/01/24 10:06
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-16

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 10:35	11/08/24 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*11/04/24 10:35*	*11/08/24 02:28*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 10:35	11/08/24 02:28	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 10:35	11/08/24 02:28	1
Toluene	ND		0.049		mg/Kg		11/04/24 10:35	11/08/24 02:28	1
Xylenes, Total	ND		0.098		mg/Kg		11/04/24 10:35	11/08/24 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*11/04/24 10:35*	*11/08/24 02:28*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.4		mg/Kg		11/04/24 11:56	11/05/24 17:24	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		11/04/24 11:56	11/05/24 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*11/04/24 11:56*	*11/05/24 17:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**370**		61		mg/Kg		11/04/24 14:21	11/04/24 19:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W34

Date Collected: 11/01/24 10:10
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-17

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		11/04/24 10:35	11/08/24 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*11/04/24 10:35*	*11/08/24 02:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 10:35	11/08/24 02:51	1
Ethylbenzene	ND		0.048		mg/Kg		11/04/24 10:35	11/08/24 02:51	1
Toluene	ND		0.048		mg/Kg		11/04/24 10:35	11/08/24 02:51	1
Xylenes, Total	ND		0.095		mg/Kg		11/04/24 10:35	11/08/24 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*11/04/24 10:35*	*11/08/24 02:51*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.2		mg/Kg		11/04/24 11:56	11/05/24 17:35	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		11/04/24 11:56	11/05/24 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*11/04/24 11:56*	*11/05/24 17:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		60		mg/Kg		11/04/24 14:21	11/04/24 19:21	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W35

Date Collected: 11/01/24 10:12
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-18

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 10:35	11/08/24 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*11/04/24 10:35*	*11/08/24 03:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 10:35	11/08/24 03:15	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 10:35	11/08/24 03:15	1
Toluene	ND		0.049		mg/Kg		11/04/24 10:35	11/08/24 03:15	1
Xylenes, Total	ND		0.099		mg/Kg		11/04/24 10:35	11/08/24 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*11/04/24 10:35*	*11/08/24 03:15*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.5		mg/Kg		11/04/24 11:56	11/05/24 17:56	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/04/24 11:56	11/05/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*11/04/24 11:56*	*11/05/24 17:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2000**		60		mg/Kg		11/04/24 14:21	11/04/24 19:31	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W36

Date Collected: 11/01/24 10:14
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-19

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 10:35	11/08/24 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*11/04/24 10:35*	*11/08/24 03:38*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 10:35	11/08/24 03:38	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 10:35	11/08/24 03:38	1
Toluene	ND		0.049		mg/Kg		11/04/24 10:35	11/08/24 03:38	1
Xylenes, Total	ND		0.097		mg/Kg		11/04/24 10:35	11/08/24 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*11/04/24 10:35*	*11/08/24 03:38*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.5		mg/Kg		11/04/24 11:56	11/05/24 18:07	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		11/04/24 11:56	11/05/24 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*11/04/24 11:56*	*11/05/24 18:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		61		mg/Kg		11/04/24 14:21	11/04/24 19:40	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW1

Date Collected: 11/01/24 10:16
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-20

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/04/24 10:35	11/08/24 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*11/04/24 10:35*	*11/08/24 04:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/04/24 10:35	11/08/24 04:01	1
Ethylbenzene	ND		0.047		mg/Kg		11/04/24 10:35	11/08/24 04:01	1
Toluene	ND		0.047		mg/Kg		11/04/24 10:35	11/08/24 04:01	1
Xylenes, Total	ND		0.093		mg/Kg		11/04/24 10:35	11/08/24 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*11/04/24 10:35*	*11/08/24 04:01*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.1		mg/Kg		11/04/24 11:56	11/05/24 18:40	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		11/04/24 11:56	11/05/24 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*	*11/04/24 11:56*	*11/05/24 18:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**440**		60		mg/Kg		11/04/24 14:21	11/04/24 19:50	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW2

Date Collected: 11/01/24 10:20
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-21

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/04/24 13:38	11/05/24 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*11/04/24 13:38*	*11/05/24 22:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/04/24 13:38	11/05/24 22:15	1
Ethylbenzene	ND		0.047		mg/Kg		11/04/24 13:38	11/05/24 22:15	1
Toluene	ND		0.047		mg/Kg		11/04/24 13:38	11/05/24 22:15	1
Xylenes, Total	ND		0.094		mg/Kg		11/04/24 13:38	11/05/24 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*11/04/24 13:38*	*11/05/24 22:15*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.9		mg/Kg		11/04/24 15:12	11/05/24 19:22	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/04/24 15:12	11/05/24 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*11/04/24 15:12*	*11/05/24 19:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1900**		60		mg/Kg		11/05/24 06:59	11/05/24 08:31	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW3

Date Collected: 11/01/24 10:22
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-22

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/04/24 13:38	11/05/24 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*11/04/24 13:38*	*11/05/24 23:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 13:38	11/05/24 23:26	1
Ethylbenzene	ND	F1	0.047		mg/Kg		11/04/24 13:38	11/05/24 23:26	1
Toluene	ND		0.047		mg/Kg		11/04/24 13:38	11/05/24 23:26	1
Xylenes, Total	ND		0.094		mg/Kg		11/04/24 13:38	11/05/24 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*11/04/24 13:38*	*11/05/24 23:26*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.7		mg/Kg		11/04/24 15:12	11/05/24 19:33	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/04/24 15:12	11/05/24 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*11/04/24 15:12*	*11/05/24 19:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		60		mg/Kg		11/05/24 06:59	11/05/24 09:01	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW4

Date Collected: 11/01/24 10:24
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-23

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 13:38	11/06/24 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*11/04/24 13:38*	*11/06/24 00:36*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 13:38	11/06/24 00:36	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 13:38	11/06/24 00:36	1
Toluene	ND		0.049		mg/Kg		11/04/24 13:38	11/06/24 00:36	1
Xylenes, Total	ND		0.097		mg/Kg		11/04/24 13:38	11/06/24 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*11/04/24 13:38*	*11/06/24 00:36*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.6		mg/Kg		11/04/24 15:12	11/05/24 19:44	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/04/24 15:12	11/05/24 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*81*		*62 - 134*	*11/04/24 15:12*	*11/05/24 19:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		60		mg/Kg		11/05/24 06:59	11/05/24 09:31	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW5

Date Collected: 11/01/24 10:26
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-24

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 13:38	11/06/24 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*11/04/24 13:38*	*11/06/24 01:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 13:38	11/06/24 01:00	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 13:38	11/06/24 01:00	1
Toluene	ND		0.049		mg/Kg		11/04/24 13:38	11/06/24 01:00	1
Xylenes, Total	ND		0.098		mg/Kg		11/04/24 13:38	11/06/24 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*11/04/24 13:38*	*11/06/24 01:00*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.9		mg/Kg		11/04/24 15:12	11/05/24 19:55	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		11/04/24 15:12	11/05/24 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*11/04/24 15:12*	*11/05/24 19:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1900**		60		mg/Kg		11/05/24 06:59	11/05/24 10:00	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW6

Date Collected: 11/01/24 10:30
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-25

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 13:38	11/06/24 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*11/04/24 13:38*	*11/06/24 01:23*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 13:38	11/06/24 01:23	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 13:38	11/06/24 01:23	1
Toluene	ND		0.049		mg/Kg		11/04/24 13:38	11/06/24 01:23	1
Xylenes, Total	ND		0.099		mg/Kg		11/04/24 13:38	11/06/24 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*11/04/24 13:38*	*11/06/24 01:23*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.3		mg/Kg		11/04/24 15:12	11/05/24 20:05	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		11/04/24 15:12	11/05/24 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*11/04/24 15:12*	*11/05/24 20:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		60		mg/Kg		11/05/24 06:59	11/05/24 10:10	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW7

Date Collected: 11/01/24 10:34
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-26

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/04/24 13:38	11/06/24 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*11/04/24 13:38*	*11/06/24 01:47*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 13:38	11/06/24 01:47	1
Ethylbenzene	ND		0.050		mg/Kg		11/04/24 13:38	11/06/24 01:47	1
Toluene	ND		0.050		mg/Kg		11/04/24 13:38	11/06/24 01:47	1
Xylenes, Total	ND		0.10		mg/Kg		11/04/24 13:38	11/06/24 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*11/04/24 13:38*	*11/06/24 01:47*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.2		mg/Kg		11/04/24 15:12	11/05/24 20:16	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		11/04/24 15:12	11/05/24 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*11/04/24 15:12*	*11/05/24 20:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		60		mg/Kg		11/05/24 06:59	11/05/24 10:20	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW8

Date Collected: 11/01/24 10:36
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-27

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		11/04/24 13:38	11/06/24 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*11/04/24 13:38*	*11/06/24 02:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 13:38	11/06/24 02:10	1
Ethylbenzene	ND		0.048		mg/Kg		11/04/24 13:38	11/06/24 02:10	1
Toluene	ND		0.048		mg/Kg		11/04/24 13:38	11/06/24 02:10	1
Xylenes, Total	ND		0.097		mg/Kg		11/04/24 13:38	11/06/24 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*11/04/24 13:38*	*11/06/24 02:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.5		mg/Kg		11/04/24 15:12	11/05/24 20:27	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/04/24 15:12	11/05/24 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*11/04/24 15:12*	*11/05/24 20:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1700**		60		mg/Kg		11/05/24 06:59	11/05/24 10:30	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW9

Date Collected: 11/01/24 10:38
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-28

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		11/04/24 13:38	11/06/24 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*11/04/24 13:38*	*11/06/24 02:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 13:38	11/06/24 02:34	1
Ethylbenzene	ND		0.048		mg/Kg		11/04/24 13:38	11/06/24 02:34	1
Toluene	ND		0.048		mg/Kg		11/04/24 13:38	11/06/24 02:34	1
Xylenes, Total	ND		0.096		mg/Kg		11/04/24 13:38	11/06/24 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*11/04/24 13:38*	*11/06/24 02:34*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.5		mg/Kg		11/04/24 15:12	11/05/24 20:37	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/04/24 15:12	11/05/24 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*11/04/24 15:12*	*11/05/24 20:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		60		mg/Kg		11/05/24 06:59	11/05/24 10:39	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW10

Date Collected: 11/01/24 10:40
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-29

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 13:38	11/06/24 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*11/04/24 13:38*	*11/06/24 02:57*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 13:38	11/06/24 02:57	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 13:38	11/06/24 02:57	1
Toluene	ND		0.049		mg/Kg		11/04/24 13:38	11/06/24 02:57	1
Xylenes, Total	ND		0.097		mg/Kg		11/04/24 13:38	11/06/24 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*11/04/24 13:38*	*11/06/24 02:57*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.8		mg/Kg		11/04/24 15:12	11/05/24 20:58	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/04/24 15:12	11/05/24 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*11/04/24 15:12*	*11/05/24 20:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		60		mg/Kg		11/05/24 06:59	11/05/24 10:49	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW11

Date Collected: 11/01/24 10:42
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-30

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		11/04/24 13:38	11/06/24 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*11/04/24 13:38*	*11/06/24 03:21*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 13:38	11/06/24 03:21	1
Ethylbenzene	ND		0.048		mg/Kg		11/04/24 13:38	11/06/24 03:21	1
Toluene	ND		0.048		mg/Kg		11/04/24 13:38	11/06/24 03:21	1
Xylenes, Total	ND		0.096		mg/Kg		11/04/24 13:38	11/06/24 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*11/04/24 13:38*	*11/06/24 03:21*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.2		mg/Kg		11/04/24 15:12	11/05/24 21:30	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		11/04/24 15:12	11/05/24 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*11/04/24 15:12*	*11/05/24 21:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		60		mg/Kg		11/05/24 06:59	11/05/24 11:09	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW12

Date Collected: 11/01/24 10:46
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-31

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		11/04/24 13:38	11/06/24 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*11/04/24 13:38*	*11/06/24 04:07*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/04/24 13:38	11/06/24 04:07	1
Ethylbenzene	ND		0.046		mg/Kg		11/04/24 13:38	11/06/24 04:07	1
Toluene	ND		0.046		mg/Kg		11/04/24 13:38	11/06/24 04:07	1
Xylenes, Total	ND		0.092		mg/Kg		11/04/24 13:38	11/06/24 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*11/04/24 13:38*	*11/06/24 04:07*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.3		mg/Kg		11/04/24 15:12	11/05/24 21:40	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		11/04/24 15:12	11/05/24 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*	*11/04/24 15:12*	*11/05/24 21:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		60		mg/Kg		11/05/24 06:59	11/05/24 11:19	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW13

Date Collected: 11/01/24 10:50
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-32

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		11/04/24 13:38	11/06/24 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*11/04/24 13:38*	*11/06/24 04:31*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 13:38	11/06/24 04:31	1
Ethylbenzene	ND		0.048		mg/Kg		11/04/24 13:38	11/06/24 04:31	1
Toluene	ND		0.048		mg/Kg		11/04/24 13:38	11/06/24 04:31	1
Xylenes, Total	ND		0.096		mg/Kg		11/04/24 13:38	11/06/24 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*11/04/24 13:38*	*11/06/24 04:31*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.8		mg/Kg		11/04/24 15:12	11/05/24 21:51	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/04/24 15:12	11/05/24 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*11/04/24 15:12*	*11/05/24 21:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**490**		60		mg/Kg		11/05/24 06:59	11/05/24 11:29	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW14

Date Collected: 11/01/24 10:56
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-33

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/04/24 13:38	11/06/24 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*11/04/24 13:38*	*11/06/24 04:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 13:38	11/06/24 04:54	1
Ethylbenzene	ND		0.047		mg/Kg		11/04/24 13:38	11/06/24 04:54	1
Toluene	ND		0.047		mg/Kg		11/04/24 13:38	11/06/24 04:54	1
Xylenes, Total	ND		0.094		mg/Kg		11/04/24 13:38	11/06/24 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*11/04/24 13:38*	*11/06/24 04:54*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.7		mg/Kg		11/04/24 15:12	11/05/24 22:02	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/04/24 15:12	11/05/24 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*11/04/24 15:12*	*11/05/24 22:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**640**		60		mg/Kg		11/05/24 06:59	11/05/24 11:58	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW15

Date Collected: 11/01/24 11:00
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-34

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 13:38	11/06/24 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*11/04/24 13:38*	*11/06/24 05:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 13:38	11/06/24 05:17	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 13:38	11/06/24 05:17	1
Toluene	ND		0.049		mg/Kg		11/04/24 13:38	11/06/24 05:17	1
Xylenes, Total	ND		0.097		mg/Kg		11/04/24 13:38	11/06/24 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*11/04/24 13:38*	*11/06/24 05:17*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.5		mg/Kg		11/04/24 15:12	11/05/24 22:12	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/04/24 15:12	11/05/24 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*11/04/24 15:12*	*11/05/24 22:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**510**		60		mg/Kg		11/05/24 06:59	11/05/24 12:08	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW16

Date Collected: 11/01/24 11:02
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-35

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/04/24 13:38	11/06/24 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*11/04/24 13:38*	*11/06/24 05:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/04/24 13:38	11/06/24 05:41	1
Ethylbenzene	ND		0.047		mg/Kg		11/04/24 13:38	11/06/24 05:41	1
Toluene	ND		0.047		mg/Kg		11/04/24 13:38	11/06/24 05:41	1
Xylenes, Total	ND		0.094		mg/Kg		11/04/24 13:38	11/06/24 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*11/04/24 13:38*	*11/06/24 05:41*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.3		mg/Kg		11/04/24 15:12	11/05/24 22:22	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		11/04/24 15:12	11/05/24 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*11/04/24 15:12*	*11/05/24 22:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000**		60		mg/Kg		11/05/24 06:59	11/05/24 12:18	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW17

Date Collected: 11/01/24 11:04
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-36

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/04/24 13:38	11/06/24 06:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*11/04/24 13:38*	*11/06/24 06:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/04/24 13:38	11/06/24 06:04	1
Ethylbenzene	ND		0.047		mg/Kg		11/04/24 13:38	11/06/24 06:04	1
Toluene	ND		0.047		mg/Kg		11/04/24 13:38	11/06/24 06:04	1
Xylenes, Total	ND		0.094		mg/Kg		11/04/24 13:38	11/06/24 06:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*11/04/24 13:38*	*11/06/24 06:04*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.2		mg/Kg		11/04/24 15:12	11/05/24 22:33	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		11/04/24 15:12	11/05/24 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*11/04/24 15:12*	*11/05/24 22:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**510**		60		mg/Kg		11/05/24 06:59	11/05/24 12:28	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW18

Date Collected: 11/01/24 11:06
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-37

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/04/24 13:38	11/06/24 06:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*11/04/24 13:38*	*11/06/24 06:27*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 13:38	11/06/24 06:27	1
Ethylbenzene	ND		0.049		mg/Kg		11/04/24 13:38	11/06/24 06:27	1
Toluene	ND		0.049		mg/Kg		11/04/24 13:38	11/06/24 06:27	1
Xylenes, Total	ND		0.097		mg/Kg		11/04/24 13:38	11/06/24 06:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*11/04/24 13:38*	*11/06/24 06:27*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.8		mg/Kg		11/04/24 15:12	11/05/24 22:54	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/04/24 15:12	11/05/24 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*11/04/24 15:12*	*11/05/24 22:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		60		mg/Kg		11/05/24 06:59	11/05/24 12:38	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW19

Date Collected: 11/01/24 11:10
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-38

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/04/24 13:38	11/06/24 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*11/04/24 13:38*	*11/06/24 06:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/04/24 13:38	11/06/24 06:51	1
Ethylbenzene	ND		0.047		mg/Kg		11/04/24 13:38	11/06/24 06:51	1
Toluene	ND		0.047		mg/Kg		11/04/24 13:38	11/06/24 06:51	1
Xylenes, Total	ND		0.095		mg/Kg		11/04/24 13:38	11/06/24 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*11/04/24 13:38*	*11/06/24 06:51*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.8		mg/Kg		11/04/24 15:12	11/05/24 23:04	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/04/24 15:12	11/05/24 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*11/04/24 15:12*	*11/05/24 23:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**990**		60		mg/Kg		11/05/24 06:59	11/05/24 12:47	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW20

Date Collected: 11/01/24 11:12
Date Received: 11/02/24 08:15

Lab Sample ID: 885-14636-39

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/04/24 13:38	11/06/24 07:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*11/04/24 13:38*	*11/06/24 07:14*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 13:38	11/06/24 07:14	1
Ethylbenzene	ND		0.050		mg/Kg		11/04/24 13:38	11/06/24 07:14	1
Toluene	ND		0.050		mg/Kg		11/04/24 13:38	11/06/24 07:14	1
Xylenes, Total	ND		0.10		mg/Kg		11/04/24 13:38	11/06/24 07:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*11/04/24 13:38*	*11/06/24 07:14*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.4		mg/Kg		11/04/24 15:12	11/05/24 23:15	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		11/04/24 15:12	11/05/24 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*11/04/24 15:12*	*11/05/24 23:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2000**		60		mg/Kg		11/05/24 06:59	11/05/24 12:57	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-15313/1-A
Matrix: Solid
Analysis Batch: 15537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15313

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/04/24 10:35	11/07/24 18:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*11/04/24 10:35*	*11/07/24 18:21*	*1*

Lab Sample ID: LCS 885-15313/2-A
Matrix: Solid
Analysis Batch: 15537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15313

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	26.2		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*199*		*35 - 166*

Lab Sample ID: 885-14636-1 MS
Matrix: Solid
Analysis Batch: 15537

Client Sample ID: TB-W18
Prep Type: Total/NA
Prep Batch: 15313

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	28.5		mg/Kg		114	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*208*		*35 - 166*

Lab Sample ID: 885-14636-1 MSD
Matrix: Solid
Analysis Batch: 15537

Client Sample ID: TB-W18
Prep Type: Total/NA
Prep Batch: 15313

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	25.5		mg/Kg		102	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*205*		*35 - 166*

Lab Sample ID: MB 885-15342/1-A
Matrix: Solid
Analysis Batch: 15383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15342

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/04/24 13:38	11/05/24 21:52	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 885-15342/1-A
Matrix: Solid
Analysis Batch: 15383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15342

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		35 - 166	11/04/24 13:38	11/05/24 21:52	1

Lab Sample ID: LCS 885-15342/2-A
Matrix: Solid
Analysis Batch: 15383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15342

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	24.9		mg/Kg		100	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	207	S1+	35 - 166

Lab Sample ID: 885-14636-21 MS
Matrix: Solid
Analysis Batch: 15383

Client Sample ID: TB-IW2
Prep Type: Total/NA
Prep Batch: 15342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		23.5	26.0		mg/Kg		111	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	220		35 - 166

Lab Sample ID: 885-14636-21 MSD
Matrix: Solid
Analysis Batch: 15383

Client Sample ID: TB-IW2
Prep Type: Total/NA
Prep Batch: 15342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		23.3	25.1		mg/Kg		107	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	223		35 - 166

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-15313/1-A
Matrix: Solid
Analysis Batch: 15538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15313

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 10:35	11/07/24 18:21	1
Ethylbenzene	ND		0.050		mg/Kg		11/04/24 10:35	11/07/24 18:21	1
Toluene	ND		0.050		mg/Kg		11/04/24 10:35	11/07/24 18:21	1
Xylenes, Total	ND		0.10		mg/Kg		11/04/24 10:35	11/07/24 18:21	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-15313/1-A
Matrix: Solid
Analysis Batch: 15538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15313

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145	11/04/24 10:35	11/07/24 18:21	1

Lab Sample ID: LCS 885-15313/3-A
Matrix: Solid
Analysis Batch: 15538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.05		mg/Kg		105	70 - 130
Ethylbenzene	1.00	1.08		mg/Kg		108	70 - 130
Toluene	1.00	1.08		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	2.00	2.11		mg/Kg		106	70 - 130
o-Xylene	1.00	1.04		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		48 - 145

Lab Sample ID: 885-14636-2 MS
Matrix: Solid
Analysis Batch: 15538

Client Sample ID: TB-W19
Prep Type: Total/NA
Prep Batch: 15313

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.995	1.09		mg/Kg		109	70 - 130
Ethylbenzene	ND		0.995	1.13		mg/Kg		114	70 - 130
Toluene	ND		0.995	1.15		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	ND		1.99	2.21		mg/Kg		111	70 - 130
o-Xylene	ND		0.995	1.10		mg/Kg		110	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		48 - 145

Lab Sample ID: 885-14636-2 MSD
Matrix: Solid
Analysis Batch: 15538

Client Sample ID: TB-W19
Prep Type: Total/NA
Prep Batch: 15313

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.994	1.05		mg/Kg		106	70 - 130	4	20
Ethylbenzene	ND		0.994	1.10		mg/Kg		110	70 - 130	3	20
Toluene	ND		0.994	1.09		mg/Kg		109	70 - 130	5	20
m-Xylene & p-Xylene	ND		1.99	2.15		mg/Kg		108	70 - 130	3	20
o-Xylene	ND		0.994	1.05		mg/Kg		106	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		48 - 145

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-15342/1-A
Matrix: Solid
Analysis Batch: 15384

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15342

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/04/24 13:38	11/05/24 21:52	1
Ethylbenzene	ND		0.050		mg/Kg		11/04/24 13:38	11/05/24 21:52	1
Toluene	ND		0.050		mg/Kg		11/04/24 13:38	11/05/24 21:52	1
Xylenes, Total	ND		0.10		mg/Kg		11/04/24 13:38	11/05/24 21:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*11/04/24 13:38*	*11/05/24 21:52*	*1*

Lab Sample ID: LCS 885-15342/3-A
Matrix: Solid
Analysis Batch: 15384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15342

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.08		mg/Kg		108	70 - 130		
Ethylbenzene			1.00	1.09		mg/Kg		109	70 - 130		
Toluene			1.00	1.10		mg/Kg		110	70 - 130		
m-Xylene & p-Xylene			2.00	2.15		mg/Kg		107	70 - 130		
o-Xylene			1.00	1.04		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*

Lab Sample ID: 885-14636-22 MS
Matrix: Solid
Analysis Batch: 15384

Client Sample ID: TB-IW3
Prep Type: Total/NA
Prep Batch: 15342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.935	1.11		mg/Kg		119	70 - 130		
Ethylbenzene	ND	F1	0.935	1.19		mg/Kg		127	70 - 130		
Toluene	ND		0.935	1.17		mg/Kg		125	70 - 130		
m-Xylene & p-Xylene	ND		1.87	2.33		mg/Kg		125	70 - 130		
o-Xylene	ND		0.935	1.13		mg/Kg		121	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*

Lab Sample ID: 885-14636-22 MSD
Matrix: Solid
Analysis Batch: 15384

Client Sample ID: TB-IW3
Prep Type: Total/NA
Prep Batch: 15342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.936	1.16		mg/Kg		124	70 - 130	4	20
Ethylbenzene	ND	F1	0.936	1.24	F1	mg/Kg		133	70 - 130	4	20
Toluene	ND		0.936	1.22		mg/Kg		130	70 - 130	4	20
m-Xylene & p-Xylene	ND		1.87	2.41		mg/Kg		129	70 - 130	3	20
o-Xylene	ND		0.936	1.19		mg/Kg		127	70 - 130	5	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-14636-22 MSD
Matrix: Solid
Analysis Batch: 15384

Client Sample ID: TB-IW3
Prep Type: Total/NA
Prep Batch: 15342

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-15331/1-A
Matrix: Solid
Analysis Batch: 15394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15331

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		11/04/24 11:56	11/05/24 14:13	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		11/04/24 11:56	11/05/24 14:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*11/04/24 11:56*	*11/05/24 14:13*	*1*

Lab Sample ID: LCS 885-15331/2-A
Matrix: Solid
Analysis Batch: 15394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15331

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	76.2	*+	mg/Kg		152	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*147*	*S1+*	*62 - 134*

Lab Sample ID: 885-14636-19 MS
Matrix: Solid
Analysis Batch: 15394

Client Sample ID: TB-W36
Prep Type: Total/NA
Prep Batch: 15331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND	*+	48.4	42.3		mg/Kg		87	44 - 136		

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*

Lab Sample ID: 885-14636-19 MSD
Matrix: Solid
Analysis Batch: 15394

Client Sample ID: TB-W36
Prep Type: Total/NA
Prep Batch: 15331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND	*+	49.0	43.9		mg/Kg		90	44 - 136	4	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-15348/1-A
Matrix: Solid
Analysis Batch: 15394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15348

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		11/04/24 15:12	11/05/24 19:01	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		11/04/24 15:12	11/05/24 19:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*11/04/24 15:12*	*11/05/24 19:01*	*1*

Lab Sample ID: LCS 885-15348/2-A
Matrix: Solid
Analysis Batch: 15394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15348

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	78.9	*+	mg/Kg		158	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*148*	*S1+*	*62 - 134*

Lab Sample ID: 885-14636-29 MS
Matrix: Solid
Analysis Batch: 15394

Client Sample ID: TB-IW10
Prep Type: Total/NA
Prep Batch: 15348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND	*+	47.9	40.7		mg/Kg		85	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*

Lab Sample ID: 885-14636-29 MSD
Matrix: Solid
Analysis Batch: 15394

Client Sample ID: TB-IW10
Prep Type: Total/NA
Prep Batch: 15348

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND	*+	47.9	36.0		mg/Kg		75	44 - 136	12	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*80*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-15345/1-A
Matrix: Solid
Analysis Batch: 15286

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15345

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		11/04/24 14:21	11/04/24 15:05	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-15345/2-A
Matrix: Solid
Analysis Batch: 15286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15345

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.3		mg/Kg		98	90 - 110		

Lab Sample ID: 885-14636-2 MS
Matrix: Solid
Analysis Batch: 15286

Client Sample ID: TB-W19
Prep Type: Total/NA
Prep Batch: 15345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	92		30.1	107		mg/Kg		50	50 - 150		

Lab Sample ID: 885-14636-2 MSD
Matrix: Solid
Analysis Batch: 15286

Client Sample ID: TB-W19
Prep Type: Total/NA
Prep Batch: 15345

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	92		30.0	127		mg/Kg		119	50 - 150	18	20

Lab Sample ID: MB 885-15367/1-A
Matrix: Solid
Analysis Batch: 15366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15367

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		11/05/24 06:59	11/05/24 08:12	1

Lab Sample ID: LCS 885-15367/2-A
Matrix: Solid
Analysis Batch: 15366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15367

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.2		mg/Kg		97	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

GC VOA

Prep Batch: 15313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-1	TB-W18	Total/NA	Solid	5030C	
885-14636-2	TB-W19	Total/NA	Solid	5030C	
885-14636-3	TB-W20	Total/NA	Solid	5030C	
885-14636-4	TB-W21	Total/NA	Solid	5030C	
885-14636-5	TB-W22	Total/NA	Solid	5030C	
885-14636-6	TB-W23	Total/NA	Solid	5030C	
885-14636-7	TB-W24	Total/NA	Solid	5030C	
885-14636-8	TB-W25	Total/NA	Solid	5030C	
885-14636-9	TB-W26	Total/NA	Solid	5030C	
885-14636-10	TB-W27	Total/NA	Solid	5030C	
885-14636-11	TB-W28	Total/NA	Solid	5030C	
885-14636-12	TB-W29	Total/NA	Solid	5030C	
885-14636-13	TB-W30	Total/NA	Solid	5030C	
885-14636-14	TB-W31	Total/NA	Solid	5030C	
885-14636-15	TB-W32	Total/NA	Solid	5030C	
885-14636-16	TB-W33	Total/NA	Solid	5030C	
885-14636-17	TB-W34	Total/NA	Solid	5030C	
885-14636-18	TB-W35	Total/NA	Solid	5030C	
885-14636-19	TB-W36	Total/NA	Solid	5030C	
885-14636-20	TB-IW1	Total/NA	Solid	5030C	
MB 885-15313/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-15313/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-15313/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-14636-1 MS	TB-W18	Total/NA	Solid	5030C	
885-14636-1 MSD	TB-W18	Total/NA	Solid	5030C	
885-14636-2 MS	TB-W19	Total/NA	Solid	5030C	
885-14636-2 MSD	TB-W19	Total/NA	Solid	5030C	

Prep Batch: 15342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-21	TB-IW2	Total/NA	Solid	5030C	
885-14636-22	TB-IW3	Total/NA	Solid	5030C	
885-14636-23	TB-IW4	Total/NA	Solid	5030C	
885-14636-24	TB-IW5	Total/NA	Solid	5030C	
885-14636-25	TB-IW6	Total/NA	Solid	5030C	
885-14636-26	TB-IW7	Total/NA	Solid	5030C	
885-14636-27	TB-IW8	Total/NA	Solid	5030C	
885-14636-28	TB-IW9	Total/NA	Solid	5030C	
885-14636-29	TB-IW10	Total/NA	Solid	5030C	
885-14636-30	TB-IW11	Total/NA	Solid	5030C	
885-14636-31	TB-IW12	Total/NA	Solid	5030C	
885-14636-32	TB-IW13	Total/NA	Solid	5030C	
885-14636-33	TB-IW14	Total/NA	Solid	5030C	
885-14636-34	TB-IW15	Total/NA	Solid	5030C	
885-14636-35	TB-IW16	Total/NA	Solid	5030C	
885-14636-36	TB-IW17	Total/NA	Solid	5030C	
885-14636-37	TB-IW18	Total/NA	Solid	5030C	
885-14636-38	TB-IW19	Total/NA	Solid	5030C	
885-14636-39	TB-IW20	Total/NA	Solid	5030C	
MB 885-15342/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-15342/2-A	Lab Control Sample	Total/NA	Solid	5030C	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

GC VOA (Continued)

Prep Batch: 15342 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-15342/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-14636-21 MS	TB-IW2	Total/NA	Solid	5030C	
885-14636-21 MSD	TB-IW2	Total/NA	Solid	5030C	
885-14636-22 MS	TB-IW3	Total/NA	Solid	5030C	
885-14636-22 MSD	TB-IW3	Total/NA	Solid	5030C	

Analysis Batch: 15383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-21	TB-IW2	Total/NA	Solid	8015M/D	15342
885-14636-22	TB-IW3	Total/NA	Solid	8015M/D	15342
885-14636-23	TB-IW4	Total/NA	Solid	8015M/D	15342
885-14636-24	TB-IW5	Total/NA	Solid	8015M/D	15342
885-14636-25	TB-IW6	Total/NA	Solid	8015M/D	15342
885-14636-26	TB-IW7	Total/NA	Solid	8015M/D	15342
885-14636-27	TB-IW8	Total/NA	Solid	8015M/D	15342
885-14636-28	TB-IW9	Total/NA	Solid	8015M/D	15342
885-14636-29	TB-IW10	Total/NA	Solid	8015M/D	15342
885-14636-30	TB-IW11	Total/NA	Solid	8015M/D	15342
885-14636-31	TB-IW12	Total/NA	Solid	8015M/D	15342
885-14636-32	TB-IW13	Total/NA	Solid	8015M/D	15342
885-14636-33	TB-IW14	Total/NA	Solid	8015M/D	15342
885-14636-34	TB-IW15	Total/NA	Solid	8015M/D	15342
885-14636-35	TB-IW16	Total/NA	Solid	8015M/D	15342
885-14636-36	TB-IW17	Total/NA	Solid	8015M/D	15342
885-14636-37	TB-IW18	Total/NA	Solid	8015M/D	15342
885-14636-38	TB-IW19	Total/NA	Solid	8015M/D	15342
885-14636-39	TB-IW20	Total/NA	Solid	8015M/D	15342
MB 885-15342/1-A	Method Blank	Total/NA	Solid	8015M/D	15342
LCS 885-15342/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	15342
885-14636-21 MS	TB-IW2	Total/NA	Solid	8015M/D	15342
885-14636-21 MSD	TB-IW2	Total/NA	Solid	8015M/D	15342

Analysis Batch: 15384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-21	TB-IW2	Total/NA	Solid	8021B	15342
885-14636-22	TB-IW3	Total/NA	Solid	8021B	15342
885-14636-23	TB-IW4	Total/NA	Solid	8021B	15342
885-14636-24	TB-IW5	Total/NA	Solid	8021B	15342
885-14636-25	TB-IW6	Total/NA	Solid	8021B	15342
885-14636-26	TB-IW7	Total/NA	Solid	8021B	15342
885-14636-27	TB-IW8	Total/NA	Solid	8021B	15342
885-14636-28	TB-IW9	Total/NA	Solid	8021B	15342
885-14636-29	TB-IW10	Total/NA	Solid	8021B	15342
885-14636-30	TB-IW11	Total/NA	Solid	8021B	15342
885-14636-31	TB-IW12	Total/NA	Solid	8021B	15342
885-14636-32	TB-IW13	Total/NA	Solid	8021B	15342
885-14636-33	TB-IW14	Total/NA	Solid	8021B	15342
885-14636-34	TB-IW15	Total/NA	Solid	8021B	15342
885-14636-35	TB-IW16	Total/NA	Solid	8021B	15342
885-14636-36	TB-IW17	Total/NA	Solid	8021B	15342
885-14636-37	TB-IW18	Total/NA	Solid	8021B	15342

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

GC VOA (Continued)

Analysis Batch: 15384 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-38	TB-IW19	Total/NA	Solid	8021B	15342
885-14636-39	TB-IW20	Total/NA	Solid	8021B	15342
MB 885-15342/1-A	Method Blank	Total/NA	Solid	8021B	15342
LCS 885-15342/3-A	Lab Control Sample	Total/NA	Solid	8021B	15342
885-14636-22 MS	TB-IW3	Total/NA	Solid	8021B	15342
885-14636-22 MSD	TB-IW3	Total/NA	Solid	8021B	15342

Analysis Batch: 15537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-1	TB-W18	Total/NA	Solid	8015M/D	15313
885-14636-2	TB-W19	Total/NA	Solid	8015M/D	15313
885-14636-3	TB-W20	Total/NA	Solid	8015M/D	15313
885-14636-4	TB-W21	Total/NA	Solid	8015M/D	15313
885-14636-5	TB-W22	Total/NA	Solid	8015M/D	15313
885-14636-6	TB-W23	Total/NA	Solid	8015M/D	15313
885-14636-7	TB-W24	Total/NA	Solid	8015M/D	15313
885-14636-8	TB-W25	Total/NA	Solid	8015M/D	15313
885-14636-9	TB-W26	Total/NA	Solid	8015M/D	15313
885-14636-10	TB-W27	Total/NA	Solid	8015M/D	15313
885-14636-11	TB-W28	Total/NA	Solid	8015M/D	15313
885-14636-12	TB-W29	Total/NA	Solid	8015M/D	15313
885-14636-13	TB-W30	Total/NA	Solid	8015M/D	15313
885-14636-14	TB-W31	Total/NA	Solid	8015M/D	15313
885-14636-15	TB-W32	Total/NA	Solid	8015M/D	15313
885-14636-16	TB-W33	Total/NA	Solid	8015M/D	15313
885-14636-17	TB-W34	Total/NA	Solid	8015M/D	15313
885-14636-18	TB-W35	Total/NA	Solid	8015M/D	15313
885-14636-19	TB-W36	Total/NA	Solid	8015M/D	15313
885-14636-20	TB-IW1	Total/NA	Solid	8015M/D	15313
MB 885-15313/1-A	Method Blank	Total/NA	Solid	8015M/D	15313
LCS 885-15313/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	15313
885-14636-1 MS	TB-W18	Total/NA	Solid	8015M/D	15313
885-14636-1 MSD	TB-W18	Total/NA	Solid	8015M/D	15313

Analysis Batch: 15538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-1	TB-W18	Total/NA	Solid	8021B	15313
885-14636-2	TB-W19	Total/NA	Solid	8021B	15313
885-14636-3	TB-W20	Total/NA	Solid	8021B	15313
885-14636-4	TB-W21	Total/NA	Solid	8021B	15313
885-14636-5	TB-W22	Total/NA	Solid	8021B	15313
885-14636-6	TB-W23	Total/NA	Solid	8021B	15313
885-14636-7	TB-W24	Total/NA	Solid	8021B	15313
885-14636-8	TB-W25	Total/NA	Solid	8021B	15313
885-14636-9	TB-W26	Total/NA	Solid	8021B	15313
885-14636-10	TB-W27	Total/NA	Solid	8021B	15313
885-14636-11	TB-W28	Total/NA	Solid	8021B	15313
885-14636-12	TB-W29	Total/NA	Solid	8021B	15313
885-14636-13	TB-W30	Total/NA	Solid	8021B	15313
885-14636-14	TB-W31	Total/NA	Solid	8021B	15313
885-14636-15	TB-W32	Total/NA	Solid	8021B	15313

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

GC VOA (Continued)

Analysis Batch: 15538 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-16	TB-W33	Total/NA	Solid	8021B	15313
885-14636-17	TB-W34	Total/NA	Solid	8021B	15313
885-14636-18	TB-W35	Total/NA	Solid	8021B	15313
885-14636-19	TB-W36	Total/NA	Solid	8021B	15313
885-14636-20	TB-IW1	Total/NA	Solid	8021B	15313
MB 885-15313/1-A	Method Blank	Total/NA	Solid	8021B	15313
LCS 885-15313/3-A	Lab Control Sample	Total/NA	Solid	8021B	15313
885-14636-2 MS	TB-W19	Total/NA	Solid	8021B	15313
885-14636-2 MSD	TB-W19	Total/NA	Solid	8021B	15313

GC Semi VOA

Prep Batch: 15331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-1	TB-W18	Total/NA	Solid	SHAKE	
885-14636-2	TB-W19	Total/NA	Solid	SHAKE	
885-14636-3	TB-W20	Total/NA	Solid	SHAKE	
885-14636-4	TB-W21	Total/NA	Solid	SHAKE	
885-14636-5	TB-W22	Total/NA	Solid	SHAKE	
885-14636-6	TB-W23	Total/NA	Solid	SHAKE	
885-14636-7	TB-W24	Total/NA	Solid	SHAKE	
885-14636-8	TB-W25	Total/NA	Solid	SHAKE	
885-14636-9	TB-W26	Total/NA	Solid	SHAKE	
885-14636-10	TB-W27	Total/NA	Solid	SHAKE	
885-14636-11	TB-W28	Total/NA	Solid	SHAKE	
885-14636-12	TB-W29	Total/NA	Solid	SHAKE	
885-14636-13	TB-W30	Total/NA	Solid	SHAKE	
885-14636-14	TB-W31	Total/NA	Solid	SHAKE	
885-14636-15	TB-W32	Total/NA	Solid	SHAKE	
885-14636-16	TB-W33	Total/NA	Solid	SHAKE	
885-14636-17	TB-W34	Total/NA	Solid	SHAKE	
885-14636-18	TB-W35	Total/NA	Solid	SHAKE	
885-14636-19	TB-W36	Total/NA	Solid	SHAKE	
885-14636-20	TB-IW1	Total/NA	Solid	SHAKE	
MB 885-15331/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-15331/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-14636-19 MS	TB-W36	Total/NA	Solid	SHAKE	
885-14636-19 MSD	TB-W36	Total/NA	Solid	SHAKE	

Prep Batch: 15348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-21	TB-IW2	Total/NA	Solid	SHAKE	
885-14636-22	TB-IW3	Total/NA	Solid	SHAKE	
885-14636-23	TB-IW4	Total/NA	Solid	SHAKE	
885-14636-24	TB-IW5	Total/NA	Solid	SHAKE	
885-14636-25	TB-IW6	Total/NA	Solid	SHAKE	
885-14636-26	TB-IW7	Total/NA	Solid	SHAKE	
885-14636-27	TB-IW8	Total/NA	Solid	SHAKE	
885-14636-28	TB-IW9	Total/NA	Solid	SHAKE	
885-14636-29	TB-IW10	Total/NA	Solid	SHAKE	
885-14636-30	TB-IW11	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

GC Semi VOA (Continued)

Prep Batch: 15348 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-31	TB-IW12	Total/NA	Solid	SHAKE	
885-14636-32	TB-IW13	Total/NA	Solid	SHAKE	
885-14636-33	TB-IW14	Total/NA	Solid	SHAKE	
885-14636-34	TB-IW15	Total/NA	Solid	SHAKE	
885-14636-35	TB-IW16	Total/NA	Solid	SHAKE	
885-14636-36	TB-IW17	Total/NA	Solid	SHAKE	
885-14636-37	TB-IW18	Total/NA	Solid	SHAKE	
885-14636-38	TB-IW19	Total/NA	Solid	SHAKE	
885-14636-39	TB-IW20	Total/NA	Solid	SHAKE	
MB 885-15348/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-15348/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-14636-29 MS	TB-IW10	Total/NA	Solid	SHAKE	
885-14636-29 MSD	TB-IW10	Total/NA	Solid	SHAKE	

Analysis Batch: 15394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-1	TB-W18	Total/NA	Solid	8015M/D	15331
885-14636-2	TB-W19	Total/NA	Solid	8015M/D	15331
885-14636-3	TB-W20	Total/NA	Solid	8015M/D	15331
885-14636-4	TB-W21	Total/NA	Solid	8015M/D	15331
885-14636-5	TB-W22	Total/NA	Solid	8015M/D	15331
885-14636-6	TB-W23	Total/NA	Solid	8015M/D	15331
885-14636-7	TB-W24	Total/NA	Solid	8015M/D	15331
885-14636-8	TB-W25	Total/NA	Solid	8015M/D	15331
885-14636-9	TB-W26	Total/NA	Solid	8015M/D	15331
885-14636-10	TB-W27	Total/NA	Solid	8015M/D	15331
885-14636-11	TB-W28	Total/NA	Solid	8015M/D	15331
885-14636-12	TB-W29	Total/NA	Solid	8015M/D	15331
885-14636-13	TB-W30	Total/NA	Solid	8015M/D	15331
885-14636-14	TB-W31	Total/NA	Solid	8015M/D	15331
885-14636-15	TB-W32	Total/NA	Solid	8015M/D	15331
885-14636-16	TB-W33	Total/NA	Solid	8015M/D	15331
885-14636-17	TB-W34	Total/NA	Solid	8015M/D	15331
885-14636-18	TB-W35	Total/NA	Solid	8015M/D	15331
885-14636-19	TB-W36	Total/NA	Solid	8015M/D	15331
885-14636-20	TB-IW1	Total/NA	Solid	8015M/D	15331
885-14636-21	TB-IW2	Total/NA	Solid	8015M/D	15348
885-14636-22	TB-IW3	Total/NA	Solid	8015M/D	15348
885-14636-23	TB-IW4	Total/NA	Solid	8015M/D	15348
885-14636-24	TB-IW5	Total/NA	Solid	8015M/D	15348
885-14636-25	TB-IW6	Total/NA	Solid	8015M/D	15348
885-14636-26	TB-IW7	Total/NA	Solid	8015M/D	15348
885-14636-27	TB-IW8	Total/NA	Solid	8015M/D	15348
885-14636-28	TB-IW9	Total/NA	Solid	8015M/D	15348
885-14636-29	TB-IW10	Total/NA	Solid	8015M/D	15348
885-14636-30	TB-IW11	Total/NA	Solid	8015M/D	15348
885-14636-31	TB-IW12	Total/NA	Solid	8015M/D	15348
885-14636-32	TB-IW13	Total/NA	Solid	8015M/D	15348
885-14636-33	TB-IW14	Total/NA	Solid	8015M/D	15348
885-14636-34	TB-IW15	Total/NA	Solid	8015M/D	15348
885-14636-35	TB-IW16	Total/NA	Solid	8015M/D	15348

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

GC Semi VOA (Continued)

Analysis Batch: 15394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-36	TB-IW17	Total/NA	Solid	8015M/D	15348
885-14636-37	TB-IW18	Total/NA	Solid	8015M/D	15348
885-14636-38	TB-IW19	Total/NA	Solid	8015M/D	15348
885-14636-39	TB-IW20	Total/NA	Solid	8015M/D	15348
MB 885-15331/1-A	Method Blank	Total/NA	Solid	8015M/D	15331
MB 885-15348/1-A	Method Blank	Total/NA	Solid	8015M/D	15348
LCS 885-15331/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	15331
LCS 885-15348/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	15348
885-14636-19 MS	TB-W36	Total/NA	Solid	8015M/D	15331
885-14636-19 MSD	TB-W36	Total/NA	Solid	8015M/D	15331
885-14636-29 MS	TB-IW10	Total/NA	Solid	8015M/D	15348
885-14636-29 MSD	TB-IW10	Total/NA	Solid	8015M/D	15348

HPLC/IC

Analysis Batch: 15286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-1	TB-W18	Total/NA	Solid	300.0	15345
885-14636-2	TB-W19	Total/NA	Solid	300.0	15345
885-14636-3	TB-W20	Total/NA	Solid	300.0	15345
885-14636-4	TB-W21	Total/NA	Solid	300.0	15345
885-14636-5	TB-W22	Total/NA	Solid	300.0	15345
885-14636-6	TB-W23	Total/NA	Solid	300.0	15345
885-14636-7	TB-W24	Total/NA	Solid	300.0	15345
885-14636-8	TB-W25	Total/NA	Solid	300.0	15345
885-14636-9	TB-W26	Total/NA	Solid	300.0	15345
885-14636-10	TB-W27	Total/NA	Solid	300.0	15345
885-14636-11	TB-W28	Total/NA	Solid	300.0	15345
885-14636-12	TB-W29	Total/NA	Solid	300.0	15345
885-14636-13	TB-W30	Total/NA	Solid	300.0	15345
885-14636-14	TB-W31	Total/NA	Solid	300.0	15345
885-14636-16	TB-W33	Total/NA	Solid	300.0	15345
885-14636-17	TB-W34	Total/NA	Solid	300.0	15345
885-14636-18	TB-W35	Total/NA	Solid	300.0	15345
885-14636-19	TB-W36	Total/NA	Solid	300.0	15345
885-14636-20	TB-IW1	Total/NA	Solid	300.0	15345
MB 885-15345/1-A	Method Blank	Total/NA	Solid	300.0	15345
LCS 885-15345/2-A	Lab Control Sample	Total/NA	Solid	300.0	15345
885-14636-2 MS	TB-W19	Total/NA	Solid	300.0	15345
885-14636-2 MSD	TB-W19	Total/NA	Solid	300.0	15345

Prep Batch: 15345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-1	TB-W18	Total/NA	Solid	300_Prep	
885-14636-2	TB-W19	Total/NA	Solid	300_Prep	
885-14636-3	TB-W20	Total/NA	Solid	300_Prep	
885-14636-4	TB-W21	Total/NA	Solid	300_Prep	
885-14636-5	TB-W22	Total/NA	Solid	300_Prep	
885-14636-6	TB-W23	Total/NA	Solid	300_Prep	
885-14636-7	TB-W24	Total/NA	Solid	300_Prep	
885-14636-8	TB-W25	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

HPLC/IC (Continued)

Prep Batch: 15345 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-9	TB-W26	Total/NA	Solid	300_Prep	
885-14636-10	TB-W27	Total/NA	Solid	300_Prep	
885-14636-11	TB-W28	Total/NA	Solid	300_Prep	
885-14636-12	TB-W29	Total/NA	Solid	300_Prep	
885-14636-13	TB-W30	Total/NA	Solid	300_Prep	
885-14636-14	TB-W31	Total/NA	Solid	300_Prep	
885-14636-15	TB-W32	Total/NA	Solid	300_Prep	
885-14636-16	TB-W33	Total/NA	Solid	300_Prep	
885-14636-17	TB-W34	Total/NA	Solid	300_Prep	
885-14636-18	TB-W35	Total/NA	Solid	300_Prep	
885-14636-19	TB-W36	Total/NA	Solid	300_Prep	
885-14636-20	TB-IW1	Total/NA	Solid	300_Prep	
MB 885-15345/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-15345/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-14636-2 MS	TB-W19	Total/NA	Solid	300_Prep	
885-14636-2 MSD	TB-W19	Total/NA	Solid	300_Prep	

Analysis Batch: 15366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-15	TB-W32	Total/NA	Solid	300.0	15345
885-14636-21	TB-IW2	Total/NA	Solid	300.0	15367
885-14636-22	TB-IW3	Total/NA	Solid	300.0	15367
885-14636-23	TB-IW4	Total/NA	Solid	300.0	15367
885-14636-24	TB-IW5	Total/NA	Solid	300.0	15367
885-14636-25	TB-IW6	Total/NA	Solid	300.0	15367
885-14636-26	TB-IW7	Total/NA	Solid	300.0	15367
885-14636-27	TB-IW8	Total/NA	Solid	300.0	15367
885-14636-28	TB-IW9	Total/NA	Solid	300.0	15367
885-14636-29	TB-IW10	Total/NA	Solid	300.0	15367
885-14636-30	TB-IW11	Total/NA	Solid	300.0	15367
885-14636-31	TB-IW12	Total/NA	Solid	300.0	15367
885-14636-32	TB-IW13	Total/NA	Solid	300.0	15367
885-14636-33	TB-IW14	Total/NA	Solid	300.0	15367
885-14636-34	TB-IW15	Total/NA	Solid	300.0	15367
885-14636-35	TB-IW16	Total/NA	Solid	300.0	15367
885-14636-36	TB-IW17	Total/NA	Solid	300.0	15367
885-14636-37	TB-IW18	Total/NA	Solid	300.0	15367
885-14636-38	TB-IW19	Total/NA	Solid	300.0	15367
885-14636-39	TB-IW20	Total/NA	Solid	300.0	15367
MB 885-15367/1-A	Method Blank	Total/NA	Solid	300.0	15367
LCS 885-15367/2-A	Lab Control Sample	Total/NA	Solid	300.0	15367

Prep Batch: 15367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-21	TB-IW2	Total/NA	Solid	300_Prep	
885-14636-22	TB-IW3	Total/NA	Solid	300_Prep	
885-14636-23	TB-IW4	Total/NA	Solid	300_Prep	
885-14636-24	TB-IW5	Total/NA	Solid	300_Prep	
885-14636-25	TB-IW6	Total/NA	Solid	300_Prep	
885-14636-26	TB-IW7	Total/NA	Solid	300_Prep	
885-14636-27	TB-IW8	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

HPLC/IC (Continued)

Prep Batch: 15367 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14636-28	TB-IW9	Total/NA	Solid	300_Prep	
885-14636-29	TB-IW10	Total/NA	Solid	300_Prep	
885-14636-30	TB-IW11	Total/NA	Solid	300_Prep	
885-14636-31	TB-IW12	Total/NA	Solid	300_Prep	
885-14636-32	TB-IW13	Total/NA	Solid	300_Prep	
885-14636-33	TB-IW14	Total/NA	Solid	300_Prep	
885-14636-34	TB-IW15	Total/NA	Solid	300_Prep	
885-14636-35	TB-IW16	Total/NA	Solid	300_Prep	
885-14636-36	TB-IW17	Total/NA	Solid	300_Prep	
885-14636-37	TB-IW18	Total/NA	Solid	300_Prep	
885-14636-38	TB-IW19	Total/NA	Solid	300_Prep	
885-14636-39	TB-IW20	Total/NA	Solid	300_Prep	
MB 885-15367/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-15367/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W18

Lab Sample ID: 885-14636-1

Date Collected: 11/01/24 08:50
Date Received: 11/02/24 08:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/07/24 18:44
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/07/24 18:44
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 14:34
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 15:24

Client Sample ID: TB-W19

Lab Sample ID: 885-14636-2

Date Collected: 11/01/24 08:54
Date Received: 11/02/24 08:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/07/24 19:54
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/07/24 19:54
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 14:45
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 15:54

Client Sample ID: TB-W20

Lab Sample ID: 885-14636-3

Date Collected: 11/01/24 09:00
Date Received: 11/02/24 08:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/07/24 21:04
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/07/24 21:04
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 14:55
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 16:43

Client Sample ID: TB-W21

Lab Sample ID: 885-14636-4

Date Collected: 11/01/24 09:02
Date Received: 11/02/24 08:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/07/24 21:27

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W21

Lab Sample ID: 885-14636-4

Date Collected: 11/01/24 09:02
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/07/24 21:27
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 15:06
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 16:53

Client Sample ID: TB-W22

Lab Sample ID: 885-14636-5

Date Collected: 11/01/24 09:04
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/07/24 21:51
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/07/24 21:51
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 15:17
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 17:03

Client Sample ID: TB-W23

Lab Sample ID: 885-14636-6

Date Collected: 11/01/24 09:10
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/07/24 22:14
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/07/24 22:14
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 15:27
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 17:13

Client Sample ID: TB-W24

Lab Sample ID: 885-14636-7

Date Collected: 11/01/24 09:14
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/07/24 22:37
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/07/24 22:37

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W24

Lab Sample ID: 885-14636-7

Date Collected: 11/01/24 09:14
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 15:38
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 17:23

Client Sample ID: TB-W25

Lab Sample ID: 885-14636-8

Date Collected: 11/01/24 09:22
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/07/24 23:00
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/07/24 23:00
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 15:59
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 17:32

Client Sample ID: TB-W26

Lab Sample ID: 885-14636-9

Date Collected: 11/01/24 09:24
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/07/24 23:23
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/07/24 23:23
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 16:10
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 17:42

Client Sample ID: TB-W27

Lab Sample ID: 885-14636-10

Date Collected: 11/01/24 09:30
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/07/24 23:46
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/07/24 23:46
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 16:20

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W27

Lab Sample ID: 885-14636-10

Date Collected: 11/01/24 09:30
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 17:52

Client Sample ID: TB-W28

Lab Sample ID: 885-14636-11

Date Collected: 11/01/24 09:36
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/08/24 00:33
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/08/24 00:33
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 16:31
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 18:22

Client Sample ID: TB-W29

Lab Sample ID: 885-14636-12

Date Collected: 11/01/24 09:42
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/08/24 00:56
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/08/24 00:56
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 16:42
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 18:31

Client Sample ID: TB-W30

Lab Sample ID: 885-14636-13

Date Collected: 11/01/24 09:48
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/08/24 01:19
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/08/24 01:19
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 16:52
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 18:41

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W31

Lab Sample ID: 885-14636-14

Date Collected: 11/01/24 10:00
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/08/24 01:42
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/08/24 01:42
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 17:03
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 18:51

Client Sample ID: TB-W32

Lab Sample ID: 885-14636-15

Date Collected: 11/01/24 10:02
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/08/24 02:05
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/08/24 02:05
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 17:14
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		50	15366	JT	EET ALB	11/05/24 08:02

Client Sample ID: TB-W33

Lab Sample ID: 885-14636-16

Date Collected: 11/01/24 10:06
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/08/24 02:28
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/08/24 02:28
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 17:24
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 19:11

Client Sample ID: TB-W34

Lab Sample ID: 885-14636-17

Date Collected: 11/01/24 10:10
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/08/24 02:51

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-W34

Lab Sample ID: 885-14636-17

Date Collected: 11/01/24 10:10
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/08/24 02:51
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 17:35
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 19:21

Client Sample ID: TB-W35

Lab Sample ID: 885-14636-18

Date Collected: 11/01/24 10:12
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/08/24 03:15
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/08/24 03:15
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 17:56
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 19:31

Client Sample ID: TB-W36

Lab Sample ID: 885-14636-19

Date Collected: 11/01/24 10:14
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/08/24 03:38
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/08/24 03:38
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 18:07
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 19:40

Client Sample ID: TB-IW1

Lab Sample ID: 885-14636-20

Date Collected: 11/01/24 10:16
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8015M/D		1	15537	JP	EET ALB	11/08/24 04:01
Total/NA	Prep	5030C			15313	AT	EET ALB	11/04/24 10:35
Total/NA	Analysis	8021B		1	15538	JP	EET ALB	11/08/24 04:01

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW1

Lab Sample ID: 885-14636-20
Matrix: Solid
Date Collected: 11/01/24 10:16
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			15331	MI	EET ALB	11/04/24 11:56
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 18:40
Total/NA	Prep	300_Prep			15345	JT	EET ALB	11/04/24 14:21
Total/NA	Analysis	300.0		20	15286	JT	EET ALB	11/04/24 19:50

Client Sample ID: TB-IW2

Lab Sample ID: 885-14636-21
Matrix: Solid
Date Collected: 11/01/24 10:20
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/05/24 22:15
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/05/24 22:15
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 19:22
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 08:31

Client Sample ID: TB-IW3

Lab Sample ID: 885-14636-22
Matrix: Solid
Date Collected: 11/01/24 10:22
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/05/24 23:26
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/05/24 23:26
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 19:33
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 09:01

Client Sample ID: TB-IW4

Lab Sample ID: 885-14636-23
Matrix: Solid
Date Collected: 11/01/24 10:24
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 00:36
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 00:36
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 19:44

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW4

Lab Sample ID: 885-14636-23

Date Collected: 11/01/24 10:24
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 09:31

Client Sample ID: TB-IW5

Lab Sample ID: 885-14636-24

Date Collected: 11/01/24 10:26
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 01:00
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 01:00
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 19:55
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 10:00

Client Sample ID: TB-IW6

Lab Sample ID: 885-14636-25

Date Collected: 11/01/24 10:30
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 01:23
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 01:23
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 20:05
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 10:10

Client Sample ID: TB-IW7

Lab Sample ID: 885-14636-26

Date Collected: 11/01/24 10:34
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 01:47
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 01:47
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 20:16
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 10:20

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW8

Lab Sample ID: 885-14636-27

Date Collected: 11/01/24 10:36
Date Received: 11/02/24 08:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 02:10
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 02:10
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 20:27
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 10:30

Client Sample ID: TB-IW9

Lab Sample ID: 885-14636-28

Date Collected: 11/01/24 10:38
Date Received: 11/02/24 08:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 02:34
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 02:34
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 20:37
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 10:39

Client Sample ID: TB-IW10

Lab Sample ID: 885-14636-29

Date Collected: 11/01/24 10:40
Date Received: 11/02/24 08:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 02:57
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 02:57
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 20:58
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 10:49

Client Sample ID: TB-IW11

Lab Sample ID: 885-14636-30

Date Collected: 11/01/24 10:42
Date Received: 11/02/24 08:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 03:21

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW11

Lab Sample ID: 885-14636-30

Date Collected: 11/01/24 10:42
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 03:21
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 21:30
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 11:09

Client Sample ID: TB-IW12

Lab Sample ID: 885-14636-31

Date Collected: 11/01/24 10:46
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 04:07
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 04:07
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 21:40
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 11:19

Client Sample ID: TB-IW13

Lab Sample ID: 885-14636-32

Date Collected: 11/01/24 10:50
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 04:31
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 04:31
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 21:51
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 11:29

Client Sample ID: TB-IW14

Lab Sample ID: 885-14636-33

Date Collected: 11/01/24 10:56
Matrix: Solid
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 04:54
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 04:54

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW14

Lab Sample ID: 885-14636-33
Matrix: Solid
Date Collected: 11/01/24 10:56
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 22:02
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 11:58

Client Sample ID: TB-IW15

Lab Sample ID: 885-14636-34
Matrix: Solid
Date Collected: 11/01/24 11:00
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 05:17
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 05:17
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 22:12
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 12:08

Client Sample ID: TB-IW16

Lab Sample ID: 885-14636-35
Matrix: Solid
Date Collected: 11/01/24 11:02
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 05:41
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 05:41
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 22:22
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 12:18

Client Sample ID: TB-IW17

Lab Sample ID: 885-14636-36
Matrix: Solid
Date Collected: 11/01/24 11:04
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 06:04
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 06:04
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 22:33

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Client Sample ID: TB-IW17

Lab Sample ID: 885-14636-36
Matrix: Solid
Date Collected: 11/01/24 11:04
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 12:28

Client Sample ID: TB-IW18

Lab Sample ID: 885-14636-37
Matrix: Solid
Date Collected: 11/01/24 11:06
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 06:27
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 06:27
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 22:54
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 12:38

Client Sample ID: TB-IW19

Lab Sample ID: 885-14636-38
Matrix: Solid
Date Collected: 11/01/24 11:10
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 06:51
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 06:51
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 23:04
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 12:47

Client Sample ID: TB-IW20

Lab Sample ID: 885-14636-39
Matrix: Solid
Date Collected: 11/01/24 11:12
Date Received: 11/02/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8015M/D		1	15383	JP	EET ALB	11/06/24 07:14
Total/NA	Prep	5030C			15342	JP	EET ALB	11/04/24 13:38
Total/NA	Analysis	8021B		1	15384	JP	EET ALB	11/06/24 07:14
Total/NA	Prep	SHAKE			15348	MI	EET ALB	11/04/24 15:12
Total/NA	Analysis	8015M/D		1	15394	MI	EET ALB	11/05/24 23:15
Total/NA	Prep	300_Prep			15367	JT	EET ALB	11/05/24 06:59
Total/NA	Analysis	300.0		20	15366	JT	EET ALB	11/05/24 12:57

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-14636-1

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-14636-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1 (0.6)

Cooler Temp(including CF): 0.6-0.2=0.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

885-14636 COC

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/1/24	0850	SOIL	TB-W18	1x4oz Jar	ICE	1	X	X	X
	0854		TB-W19			2			
	0900		TB-W20			3			
	0902		TB-W21			4			
	0904		TB-W22			5			
	0910		TB-W23			6			
	0914		TB-W24			7			
	0922		TB-W25			8			
	0924		TB ~~W25~~ W26			9			
	0930		TB-W27			10			
	0936		~~TB~~ TB-W28			11			
	0942		TB-W29			12			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/1/24	1513				11/1/24	1513
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
				COURIER	11/2/24	8:15

Remarks: Bill to EOG ~~Artesia~~ MIDLAND

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☒ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Klerdorf

Sampler: J. Martinez

On Ice: ☒ Yes ☐ No

# of Coolers: 1 Yoyi

Cooler Temp(including CF): 0.6+0.2=0.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/1/24	0948	SOIL	TB-W30	1x4oz Jar	ICE	13	X	X	X
	1000		TB-W31			14			
	1002		TB-W32			15			
	1006		TB-W33			16			
	1010		TB-W34			17			
	1012		TB-W35			18			
	1014		TB-W36			19			
	1016		TB-IW1			20			
	1020		TB-IW2			21			
	1022		TB-IW3			22			
	1024		TB-IW4			23			
	1026		TB-IW5			24			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/1/24	1513				11/1/24	1513
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
				Courier	11/2/24	8:15

Remarks: Bill to EOG ~~Artesia~~ MIDLAND

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Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

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Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:

☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ~~☑ Yes~~ ☐ No

# of Coolers: 1 Yoqs

Cooler Temp(including CF): 0.6+0.2=0.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH.8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/1/24	1036	SOIL	TB-IW 6	1x4oz Jar	ICE	25	X	X	X
	1034		TB-IW 7			26			
	1036		TB-IW 8			27			
	1038		TB-IW 9			28			
	1040		TB-IW 10			29			
	1042		TB-IW 11			30			
	1046		TB-IW 12			31			
	1050		TB-IW 13			32			
	1056		TB-IW 14			33			
	1100		TB-IW 15			34			
	1102		TB-IW 16			35			
	1104		TB-IW 17			36			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/1/24	1513				11/1/24	1513
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
				courier	11/2/24	8:15

Remarks: Bill to EOG-Artesia → MIDLAND

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Released to Imaging: 9/3/2025 1:20:26 PM

Received by OCD: 6/19/2025 8:41:42 AM

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 5 DAY TAT

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ~~☐ Yes~~ ☐ No

# of Coolers: 1 (4°C)

Cooler Temp(including CF): 0.6-0.2=0.4

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/1/24	1106	soil	TB-IW18			37	X	X	X
	1110		TB-IW19			38			
	1112		TB-IW20			39			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/1/24	1513				11/1/24	1513
				courier	11/2/24	8:15

Remarks: Bill to EOG ~~Artesia~~ MIDLAND

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-14636-1

Login Number: 14636 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: McQuiston, Steven

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 12/5/2024 8:48:32 AM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-15993-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

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Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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12/5/2024 8:48:32 AM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-15993-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-15993-1
Project/Site: Roy SWD #3

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-15993-1

Job ID: 885-15993-1 Eurofins Albuquerque

Job Narrative
885-15993-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/27/2024 7:47 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-16826 recovered above the upper control limit for Diesel Range Organics [C10-C28]. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TB-W35A (885-15993-14).

Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix: TB-W34A (885-15993-13)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W18A

Date Collected: 11/25/24 09:18
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/27/24 10:23	12/02/24 10:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*11/27/24 10:23*	*12/02/24 10:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 10:23	12/02/24 10:34	1
Ethylbenzene	ND		0.049		mg/Kg		11/27/24 10:23	12/02/24 10:34	1
Toluene	ND		0.049		mg/Kg		11/27/24 10:23	12/02/24 10:34	1
Xylenes, Total	ND		0.097		mg/Kg		11/27/24 10:23	12/02/24 10:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*11/27/24 10:23*	*12/02/24 10:34*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		12/02/24 11:55	12/02/24 14:16	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		12/02/24 11:55	12/02/24 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*	*12/02/24 11:55*	*12/02/24 14:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**		60		mg/Kg		11/27/24 12:41	11/27/24 14:55	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W19A

Date Collected: 11/25/24 09:54
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		11/27/24 10:23	12/02/24 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*11/27/24 10:23*	*12/02/24 11:45*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 10:23	12/02/24 11:45	1
Ethylbenzene	ND		0.048		mg/Kg		11/27/24 10:23	12/02/24 11:45	1
Toluene	ND		0.048		mg/Kg		11/27/24 10:23	12/02/24 11:45	1
Xylenes, Total	ND		0.096		mg/Kg		11/27/24 10:23	12/02/24 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*48 - 145*	*11/27/24 10:23*	*12/02/24 11:45*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**460**		9.7		mg/Kg		12/02/24 11:55	12/02/24 14:29	1
Motor Oil Range Organics [C28-C40]	**810**		49		mg/Kg		12/02/24 11:55	12/02/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*12/02/24 11:55*	*12/02/24 14:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		60		mg/Kg		11/27/24 12:41	11/27/24 15:24	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W20A

Date Collected: 11/25/24 09:56
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/27/24 10:23	12/02/24 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*11/27/24 10:23*	*12/02/24 12:55*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/27/24 10:23	12/02/24 12:55	1
Ethylbenzene	ND		0.049		mg/Kg		11/27/24 10:23	12/02/24 12:55	1
Toluene	ND		0.049		mg/Kg		11/27/24 10:23	12/02/24 12:55	1
Xylenes, Total	ND		0.098		mg/Kg		11/27/24 10:23	12/02/24 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*11/27/24 10:23*	*12/02/24 12:55*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		12/02/24 11:55	12/02/24 14:41	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/02/24 11:55	12/02/24 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*62 - 134*	*12/02/24 11:55*	*12/02/24 14:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**440**		60		mg/Kg		11/27/24 12:41	11/27/24 15:34	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W21A

Lab Sample ID: 885-15993-4

Date Collected: 11/25/24 10:00
Matrix: Solid
Date Received: 11/27/24 07:47

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/27/24 10:23	12/02/24 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*11/27/24 10:23*	*12/02/24 13:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/27/24 10:23	12/02/24 13:19	1
Ethylbenzene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 13:19	1
Toluene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 13:19	1
Xylenes, Total	ND		0.094		mg/Kg		11/27/24 10:23	12/02/24 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*11/27/24 10:23*	*12/02/24 13:19*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		12/02/24 11:55	12/02/24 14:54	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/02/24 11:55	12/02/24 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*12/02/24 11:55*	*12/02/24 14:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**400**		60		mg/Kg		11/27/24 12:41	11/27/24 15:44	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W22A

Lab Sample ID: 885-15993-5

Date Collected: 11/25/24 10:02
Matrix: Solid
Date Received: 11/27/24 07:47

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		11/27/24 10:23	12/02/24 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*11/27/24 10:23*	*12/02/24 13:43*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/27/24 10:23	12/02/24 13:43	1
Ethylbenzene	ND		0.046		mg/Kg		11/27/24 10:23	12/02/24 13:43	1
Toluene	ND		0.046		mg/Kg		11/27/24 10:23	12/02/24 13:43	1
Xylenes, Total	ND		0.092		mg/Kg		11/27/24 10:23	12/02/24 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*11/27/24 10:23*	*12/02/24 13:43*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		12/02/24 11:55	12/02/24 15:06	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/02/24 11:55	12/02/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*12/02/24 11:55*	*12/02/24 15:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		60		mg/Kg		11/27/24 12:41	11/27/24 15:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W24A

Lab Sample ID: 885-15993-6

Date Collected: 11/25/24 10:04
Matrix: Solid
Date Received: 11/27/24 07:47

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/27/24 10:23	12/02/24 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*11/27/24 10:23*	*12/02/24 14:07*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 10:23	12/02/24 14:07	1
Ethylbenzene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 14:07	1
Toluene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 14:07	1
Xylenes, Total	ND		0.095		mg/Kg		11/27/24 10:23	12/02/24 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*11/27/24 10:23*	*12/02/24 14:07*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		12/02/24 11:55	12/02/24 15:18	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		12/02/24 11:55	12/02/24 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*12/02/24 11:55*	*12/02/24 15:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		60		mg/Kg		11/27/24 12:41	11/27/24 16:04	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W26A

Lab Sample ID: 885-15993-7

Date Collected: 11/25/24 10:10
Matrix: Solid
Date Received: 11/27/24 07:47

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/27/24 10:23	12/02/24 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*11/27/24 10:23*	*12/02/24 14:30*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 10:23	12/02/24 14:30	1
Ethylbenzene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 14:30	1
Toluene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 14:30	1
Xylenes, Total	ND		0.094		mg/Kg		11/27/24 10:23	12/02/24 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*11/27/24 10:23*	*12/02/24 14:30*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		12/02/24 11:55	12/02/24 15:31	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/02/24 11:55	12/02/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*12/02/24 11:55*	*12/02/24 15:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		11/27/24 12:41	11/27/24 16:33	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W28A

Lab Sample ID: 885-15993-8

Date Collected: 11/25/24 10:12
Matrix: Solid
Date Received: 11/27/24 07:47

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		11/27/24 10:23	12/02/24 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*11/27/24 10:23*	*12/02/24 14:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/27/24 10:23	12/02/24 14:54	1
Ethylbenzene	ND		0.046		mg/Kg		11/27/24 10:23	12/02/24 14:54	1
Toluene	ND		0.046		mg/Kg		11/27/24 10:23	12/02/24 14:54	1
Xylenes, Total	ND		0.093		mg/Kg		11/27/24 10:23	12/02/24 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*11/27/24 10:23*	*12/02/24 14:54*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**250**		9.7		mg/Kg		12/02/24 11:55	12/02/24 15:43	1
Motor Oil Range Organics [C28-C40]	**390**		48		mg/Kg		12/02/24 11:55	12/02/24 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*12/02/24 11:55*	*12/02/24 15:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**460**		60		mg/Kg		11/27/24 12:41	11/27/24 16:43	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W29A

Lab Sample ID: 885-15993-9

Date Collected: 11/25/24 10:20
Matrix: Solid
Date Received: 11/27/24 07:47

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/27/24 10:23	12/02/24 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*11/27/24 10:23*	*12/02/24 15:18*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 10:23	12/02/24 15:18	1
Ethylbenzene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 15:18	1
Toluene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 15:18	1
Xylenes, Total	ND		0.094		mg/Kg		11/27/24 10:23	12/02/24 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*11/27/24 10:23*	*12/02/24 15:18*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		12/02/24 11:55	12/02/24 16:08	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		12/02/24 11:55	12/02/24 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*12/02/24 11:55*	*12/02/24 16:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**680**		60		mg/Kg		11/27/24 12:41	11/27/24 16:53	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W30A

Date Collected: 11/25/24 10:24
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		11/27/24 10:23	12/02/24 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*11/27/24 10:23*	*12/02/24 15:42*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/27/24 10:23	12/02/24 15:42	1
Ethylbenzene	ND		0.046		mg/Kg		11/27/24 10:23	12/02/24 15:42	1
Toluene	ND		0.046		mg/Kg		11/27/24 10:23	12/02/24 15:42	1
Xylenes, Total	ND		0.092		mg/Kg		11/27/24 10:23	12/02/24 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*11/27/24 10:23*	*12/02/24 15:42*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		12/02/24 11:55	12/02/24 16:21	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		12/02/24 11:55	12/02/24 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*12/02/24 11:55*	*12/02/24 16:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**440**		60		mg/Kg		11/27/24 12:41	11/27/24 17:03	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W32A

Date Collected: 11/25/24 10:30
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/27/24 10:23	12/02/24 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*11/27/24 10:23*	*12/02/24 16:30*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/27/24 10:23	12/02/24 16:30	1
Ethylbenzene	ND		0.049		mg/Kg		11/27/24 10:23	12/02/24 16:30	1
Toluene	ND		0.049		mg/Kg		11/27/24 10:23	12/02/24 16:30	1
Xylenes, Total	ND		0.098		mg/Kg		11/27/24 10:23	12/02/24 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*11/27/24 10:23*	*12/02/24 16:30*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		12/02/24 11:55	12/02/24 16:33	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		12/02/24 11:55	12/02/24 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*	*12/02/24 11:55*	*12/02/24 16:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**360**		60		mg/Kg		11/27/24 12:41	11/27/24 17:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W33A

Date Collected: 11/25/24 11:10
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-12

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/27/24 10:23	12/02/24 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*11/27/24 10:23*	*12/02/24 16:53*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/27/24 10:23	12/02/24 16:53	1
Ethylbenzene	ND		0.049		mg/Kg		11/27/24 10:23	12/02/24 16:53	1
Toluene	ND		0.049		mg/Kg		11/27/24 10:23	12/02/24 16:53	1
Xylenes, Total	ND		0.099		mg/Kg		11/27/24 10:23	12/02/24 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*11/27/24 10:23*	*12/02/24 16:53*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		12/02/24 11:55	12/02/24 17:19	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/02/24 11:55	12/02/24 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*12/02/24 11:55*	*12/02/24 17:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		60		mg/Kg		11/27/24 12:41	11/27/24 17:42	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W34A

Date Collected: 11/25/24 11:12
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-13

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/27/24 10:23	12/02/24 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*11/27/24 10:23*	*12/02/24 17:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/27/24 10:23	12/02/24 17:17	1
Ethylbenzene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 17:17	1
Toluene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 17:17	1
Xylenes, Total	ND		0.093		mg/Kg		11/27/24 10:23	12/02/24 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*11/27/24 10:23*	*12/02/24 17:17*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4100**		95		mg/Kg		12/02/24 11:55	12/03/24 14:06	10
Motor Oil Range Organics [C28-C40]	**7700**		470		mg/Kg		12/02/24 11:55	12/03/24 14:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*S1- D*	*62 - 134*	*12/02/24 11:55*	*12/03/24 14:06*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**500**		60		mg/Kg		11/27/24 12:41	11/27/24 17:52	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W35A

Date Collected: 11/25/24 11:14
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		11/27/24 10:23	12/02/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*11/27/24 10:23*	*12/02/24 17:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 10:23	12/02/24 17:41	1
Ethylbenzene	ND		0.048		mg/Kg		11/27/24 10:23	12/02/24 17:41	1
Toluene	ND		0.048		mg/Kg		11/27/24 10:23	12/02/24 17:41	1
Xylenes, Total	ND		0.095		mg/Kg		11/27/24 10:23	12/02/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*11/27/24 10:23*	*12/02/24 17:41*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		12/02/24 11:55	12/03/24 11:50	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/02/24 11:55	12/03/24 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*12/02/24 11:55*	*12/03/24 11:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		60		mg/Kg		11/27/24 12:41	11/27/24 18:02	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-IW3A

Date Collected: 11/25/24 11:16
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-15

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/27/24 10:23	12/02/24 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*11/27/24 10:23*	*12/02/24 18:04*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/27/24 10:23	12/02/24 18:04	1
Ethylbenzene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 18:04	1
Toluene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 18:04	1
Xylenes, Total	ND		0.093		mg/Kg		11/27/24 10:23	12/02/24 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*11/27/24 10:23*	*12/02/24 18:04*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		12/02/24 11:55	12/02/24 18:20	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/02/24 11:55	12/02/24 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*12/02/24 11:55*	*12/02/24 18:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		60		mg/Kg		11/27/24 12:41	11/27/24 18:31	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-IW4A

Date Collected: 11/25/24 11:18
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-16

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/27/24 10:23	12/02/24 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*11/27/24 10:23*	*12/02/24 18:28*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 10:23	12/02/24 18:28	1
Ethylbenzene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 18:28	1
Toluene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 18:28	1
Xylenes, Total	ND		0.095		mg/Kg		11/27/24 10:23	12/02/24 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*11/27/24 10:23*	*12/02/24 18:28*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		12/02/24 11:55	12/02/24 18:32	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/02/24 11:55	12/02/24 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*12/02/24 11:55*	*12/02/24 18:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		11/27/24 12:41	11/27/24 18:41	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-IW6A

Date Collected: 11/25/24 11:24
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-17

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		11/27/24 10:23	12/02/24 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*11/27/24 10:23*	*12/02/24 18:52*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 10:23	12/02/24 18:52	1
Ethylbenzene	ND		0.048		mg/Kg		11/27/24 10:23	12/02/24 18:52	1
Toluene	ND		0.048		mg/Kg		11/27/24 10:23	12/02/24 18:52	1
Xylenes, Total	ND		0.096		mg/Kg		11/27/24 10:23	12/02/24 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*11/27/24 10:23*	*12/02/24 18:52*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		12/02/24 11:55	12/02/24 18:56	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		12/02/24 11:55	12/02/24 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*62 - 134*	*12/02/24 11:55*	*12/02/24 18:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		60		mg/Kg		11/27/24 12:41	11/27/24 18:51	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-IW8A

Lab Sample ID: 885-15993-18

Date Collected: 11/25/24 11:30
Matrix: Solid
Date Received: 11/27/24 07:47

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/27/24 10:23	12/02/24 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*11/27/24 10:23*	*12/02/24 19:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 10:23	12/02/24 19:15	1
Ethylbenzene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 19:15	1
Toluene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 19:15	1
Xylenes, Total	ND		0.094		mg/Kg		11/27/24 10:23	12/02/24 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*11/27/24 10:23*	*12/02/24 19:15*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		12/02/24 11:55	12/02/24 19:08	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/02/24 11:55	12/02/24 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*12/02/24 11:55*	*12/02/24 19:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		60		mg/Kg		11/27/24 12:41	11/27/24 19:01	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-IW9A

Date Collected: 11/25/24 11:32
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-19

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/27/24 10:23	12/02/24 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*11/27/24 10:23*	*12/02/24 19:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 10:23	12/02/24 19:39	1
Ethylbenzene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 19:39	1
Toluene	ND		0.047		mg/Kg		11/27/24 10:23	12/02/24 19:39	1
Xylenes, Total	ND		0.094		mg/Kg		11/27/24 10:23	12/02/24 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*11/27/24 10:23*	*12/02/24 19:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		12/02/24 11:55	12/02/24 19:20	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		12/02/24 11:55	12/02/24 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*12/02/24 11:55*	*12/02/24 19:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**500**		59		mg/Kg		11/27/24 12:41	11/27/24 19:11	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-IW10A

Date Collected: 11/25/24 11:40
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-20

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/27/24 10:23	12/02/24 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*11/27/24 10:23*	*12/02/24 20:02*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 10:23	12/02/24 20:02	1
Ethylbenzene	ND		0.049		mg/Kg		11/27/24 10:23	12/02/24 20:02	1
Toluene	ND		0.049		mg/Kg		11/27/24 10:23	12/02/24 20:02	1
Xylenes, Total	ND		0.098		mg/Kg		11/27/24 10:23	12/02/24 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*11/27/24 10:23*	*12/02/24 20:02*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		12/02/24 11:55	12/02/24 19:32	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		12/02/24 11:55	12/02/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*12/02/24 11:55*	*12/02/24 19:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60		mg/Kg		11/27/24 12:41	11/27/24 19:21	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-IW12A

Date Collected: 11/25/24 11:42
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-21

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/27/24 11:37	12/02/24 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*11/27/24 11:37*	*12/02/24 22:46*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/27/24 11:37	12/02/24 22:46	1
Ethylbenzene	ND		0.049		mg/Kg		11/27/24 11:37	12/02/24 22:46	1
Toluene	ND		0.049		mg/Kg		11/27/24 11:37	12/02/24 22:46	1
Xylenes, Total	ND		0.099		mg/Kg		11/27/24 11:37	12/02/24 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*11/27/24 11:37*	*12/02/24 22:46*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		12/02/24 11:08	12/02/24 13:28	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		12/02/24 11:08	12/02/24 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*12/02/24 11:08*	*12/02/24 13:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		60		mg/Kg		11/27/24 14:36	12/02/24 10:12	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-IW14A

Lab Sample ID: 885-15993-22

Date Collected: 11/25/24 11:46
Matrix: Solid
Date Received: 11/27/24 07:47

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/27/24 11:37	12/02/24 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*11/27/24 11:37*	*12/02/24 23:10*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 11:37	12/02/24 23:10	1
Ethylbenzene	ND		0.049		mg/Kg		11/27/24 11:37	12/02/24 23:10	1
Toluene	ND		0.049		mg/Kg		11/27/24 11:37	12/02/24 23:10	1
Xylenes, Total	ND		0.098		mg/Kg		11/27/24 11:37	12/02/24 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*11/27/24 11:37*	*12/02/24 23:10*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		12/02/24 11:08	12/02/24 13:38	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/02/24 11:08	12/02/24 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*12/02/24 11:08*	*12/02/24 13:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		60		mg/Kg		11/27/24 14:36	12/02/24 10:43	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-IW15A

Date Collected: 11/25/24 11:50
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-23

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		11/27/24 11:37	12/03/24 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*35 - 166*	*11/27/24 11:37*	*12/03/24 00:20*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 11:37	12/03/24 00:20	1
Ethylbenzene	ND		0.047		mg/Kg		11/27/24 11:37	12/03/24 00:20	1
Toluene	ND		0.047		mg/Kg		11/27/24 11:37	12/03/24 00:20	1
Xylenes, Total	ND		0.094		mg/Kg		11/27/24 11:37	12/03/24 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*11/27/24 11:37*	*12/03/24 00:20*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		12/02/24 11:08	12/02/24 13:49	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/02/24 11:08	12/02/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*12/02/24 11:08*	*12/02/24 13:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**640**		60		mg/Kg		11/27/24 14:36	12/02/24 10:53	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-IW17A

Lab Sample ID: 885-15993-24

Date Collected: 11/25/24 11:54
Matrix: Solid
Date Received: 11/27/24 07:47

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		11/27/24 11:37	12/03/24 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*11/27/24 11:37*	*12/03/24 01:29*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/27/24 11:37	12/03/24 01:29	1
Ethylbenzene	ND		0.048		mg/Kg		11/27/24 11:37	12/03/24 01:29	1
Toluene	ND		0.048		mg/Kg		11/27/24 11:37	12/03/24 01:29	1
Xylenes, Total	ND		0.096		mg/Kg		11/27/24 11:37	12/03/24 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*11/27/24 11:37*	*12/03/24 01:29*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		12/02/24 11:08	12/02/24 13:59	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		12/02/24 11:08	12/02/24 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*12/02/24 11:08*	*12/02/24 13:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2000**		60		mg/Kg		11/27/24 14:36	12/02/24 11:03	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-IW18

Date Collected: 11/25/24 11:58
Date Received: 11/27/24 07:47

Lab Sample ID: 885-15993-25

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		11/27/24 11:37	12/03/24 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*11/27/24 11:37*	*12/03/24 01:53*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		11/27/24 11:37	12/03/24 01:53	1
Ethylbenzene	ND		0.046		mg/Kg		11/27/24 11:37	12/03/24 01:53	1
Toluene	ND		0.046		mg/Kg		11/27/24 11:37	12/03/24 01:53	1
Xylenes, Total	ND		0.092		mg/Kg		11/27/24 11:37	12/03/24 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*11/27/24 11:37*	*12/03/24 01:53*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		12/02/24 11:08	12/02/24 14:10	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		12/02/24 11:08	12/02/24 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*12/02/24 11:08*	*12/02/24 14:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		60		mg/Kg		11/27/24 14:36	12/02/24 11:34	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-16748/1-A
Matrix: Solid
Analysis Batch: 16796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16748

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/27/24 10:23	12/02/24 10:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*11/27/24 10:23*	*12/02/24 10:11*	*1*

Lab Sample ID: LCS 885-16748/2-A
Matrix: Solid
Analysis Batch: 16796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16748

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	22.2		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*182*		*35 - 166*

Lab Sample ID: 885-15993-1 MS
Matrix: Solid
Analysis Batch: 16796

Client Sample ID: TB-W18A
Prep Type: Total/NA
Prep Batch: 16748

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.2	21.7		mg/Kg		90	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*188*		*35 - 166*

Lab Sample ID: 885-15993-1 MSD
Matrix: Solid
Analysis Batch: 16796

Client Sample ID: TB-W18A
Prep Type: Total/NA
Prep Batch: 16748

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.2	20.2		mg/Kg		84	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*186*		*35 - 166*

Lab Sample ID: MB 885-16756/1-A
Matrix: Solid
Analysis Batch: 16861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16756

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/27/24 11:37	12/02/24 22:23	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 885-16756/1-A
Matrix: Solid
Analysis Batch: 16861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16756

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		35 - 166	11/27/24 11:37	12/02/24 22:23	1

Lab Sample ID: LCS 885-16756/2-A
Matrix: Solid
Analysis Batch: 16861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16756

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	21.7		mg/Kg		87	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	187		35 - 166

Lab Sample ID: 885-15993-22 MS
Matrix: Solid
Analysis Batch: 16861

Client Sample ID: TB-IW14A
Prep Type: Total/NA
Prep Batch: 16756

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.4	19.4		mg/Kg		80	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	181		35 - 166

Lab Sample ID: 885-15993-22 MSD
Matrix: Solid
Analysis Batch: 16861

Client Sample ID: TB-IW14A
Prep Type: Total/NA
Prep Batch: 16756

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.5	18.7		mg/Kg		76	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	179		35 - 166

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-16748/1-A
Matrix: Solid
Analysis Batch: 16797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16748

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/27/24 10:23	12/02/24 10:11	1
Ethylbenzene	ND		0.050		mg/Kg		11/27/24 10:23	12/02/24 10:11	1
Toluene	ND		0.050		mg/Kg		11/27/24 10:23	12/02/24 10:11	1
Xylenes, Total	ND		0.10		mg/Kg		11/27/24 10:23	12/02/24 10:11	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-16748/1-A
Matrix: Solid
Analysis Batch: 16797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16748

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145	11/27/24 10:23	12/02/24 10:11	1

Lab Sample ID: LCS 885-16748/3-A
Matrix: Solid
Analysis Batch: 16797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.16		mg/Kg		116	70 - 130
Ethylbenzene	1.00	1.16		mg/Kg		116	70 - 130
Toluene	1.00	1.20		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	2.00	2.29		mg/Kg		114	70 - 130
o-Xylene	1.00	1.11		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		48 - 145

Lab Sample ID: 885-15993-2 MS
Matrix: Solid
Analysis Batch: 16797

Client Sample ID: TB-W19A
Prep Type: Total/NA
Prep Batch: 16748

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.952	0.999		mg/Kg		105	70 - 130
Ethylbenzene	ND		0.952	1.02		mg/Kg		107	70 - 130
Toluene	ND		0.952	1.04		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	ND		1.90	2.01		mg/Kg		105	70 - 130
o-Xylene	ND		0.952	0.994		mg/Kg		104	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		48 - 145

Lab Sample ID: 885-15993-2 MSD
Matrix: Solid
Analysis Batch: 16797

Client Sample ID: TB-W19A
Prep Type: Total/NA
Prep Batch: 16748

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.949	1.04		mg/Kg		109	70 - 130	4	20
Ethylbenzene	ND		0.949	1.07		mg/Kg		113	70 - 130	5	20
Toluene	ND		0.949	1.07		mg/Kg		113	70 - 130	3	20
m-Xylene & p-Xylene	ND		1.90	2.10		mg/Kg		111	70 - 130	4	20
o-Xylene	ND		0.949	1.04		mg/Kg		109	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		48 - 145

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-16756/1-A
Matrix: Solid
Analysis Batch: 16860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16756

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/27/24 11:37	12/02/24 22:23	1
Ethylbenzene	ND		0.050		mg/Kg		11/27/24 11:37	12/02/24 22:23	1
Toluene	ND		0.050		mg/Kg		11/27/24 11:37	12/02/24 22:23	1
Xylenes, Total	ND		0.10		mg/Kg		11/27/24 11:37	12/02/24 22:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*11/27/24 11:37*	*12/02/24 22:23*	*1*

Lab Sample ID: LCS 885-16756/3-A
Matrix: Solid
Analysis Batch: 16860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16756

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.15		mg/Kg		115	70 - 130		
Ethylbenzene			1.00	1.17		mg/Kg		117	70 - 130		
Toluene			1.00	1.17		mg/Kg		117	70 - 130		
m-Xylene & p-Xylene			2.00	2.28		mg/Kg		114	70 - 130		
o-Xylene			1.00	1.13		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*

Lab Sample ID: 885-15993-23 MS
Matrix: Solid
Analysis Batch: 16860

Client Sample ID: TB-IW15A
Prep Type: Total/NA
Prep Batch: 16756

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.935	0.921		mg/Kg		98	70 - 130		
Ethylbenzene	ND		0.935	0.972		mg/Kg		104	70 - 130		
Toluene	ND		0.935	0.972		mg/Kg		104	70 - 130		
m-Xylene & p-Xylene	ND		1.87	1.92		mg/Kg		102	70 - 130		
o-Xylene	ND		0.935	0.941		mg/Kg		101	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*

Lab Sample ID: 885-15993-23 MSD
Matrix: Solid
Analysis Batch: 16860

Client Sample ID: TB-IW15A
Prep Type: Total/NA
Prep Batch: 16756

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.929	0.933		mg/Kg		100	70 - 130	1	20
Ethylbenzene	ND		0.929	0.964		mg/Kg		104	70 - 130	1	20
Toluene	ND		0.929	0.977		mg/Kg		105	70 - 130	0	20
m-Xylene & p-Xylene	ND		1.86	1.91		mg/Kg		102	70 - 130	1	20
o-Xylene	ND		0.929	0.933		mg/Kg		100	70 - 130	1	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-15993-23 MSD
Matrix: Solid
Analysis Batch: 16860

Client Sample ID: TB-IW15A
Prep Type: Total/NA
Prep Batch: 16756

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		48 - 145

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-16827/1-A
Matrix: Solid
Analysis Batch: 16831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16827

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		12/02/24 11:08	12/02/24 12:56	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/02/24 11:08	12/02/24 12:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134	12/02/24 11:08	12/02/24 12:56	1

Lab Sample ID: LCS 885-16827/2-A
Matrix: Solid
Analysis Batch: 16831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16827

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	36.3		mg/Kg		73	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	89		62 - 134

Lab Sample ID: MB 885-16837/1-A
Matrix: Solid
Analysis Batch: 16826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16837

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		12/02/24 11:55	12/02/24 13:52	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/02/24 11:55	12/02/24 13:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134	12/02/24 11:55	12/02/24 13:52	1

Lab Sample ID: LCS 885-16837/2-A
Matrix: Solid
Analysis Batch: 16826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16837

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	46.5		mg/Kg		93	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	104		62 - 134

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-15993-14 MS
Matrix: Solid
Analysis Batch: 16826

Client Sample ID: TB-W35A
Prep Type: Total/NA
Prep Batch: 16837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		47.2	44.5		mg/Kg		94	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*

Lab Sample ID: 885-15993-14 MSD
Matrix: Solid
Analysis Batch: 16826

Client Sample ID: TB-W35A
Prep Type: Total/NA
Prep Batch: 16837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		46.7	48.4		mg/Kg		104	44 - 136	9	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*113*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-16763/1-A
Matrix: Solid
Analysis Batch: 16771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16763

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		11/27/24 12:41	11/27/24 14:35	1

Lab Sample ID: LCS 885-16763/2-A
Matrix: Solid
Analysis Batch: 16771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16763

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.5		mg/Kg		95	90 - 110		

Lab Sample ID: MB 885-16775/1-A
Matrix: Solid
Analysis Batch: 16799

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16775

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		11/27/24 14:36	12/02/24 08:59	1

Lab Sample ID: LCS 885-16775/2-A
Matrix: Solid
Analysis Batch: 16799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16775

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.7		mg/Kg		96	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

GC VOA

Prep Batch: 16748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-1	TB-W18A	Total/NA	Solid	5030C	
885-15993-2	TB-W19A	Total/NA	Solid	5030C	
885-15993-3	TB-W20A	Total/NA	Solid	5030C	
885-15993-4	TB-W21A	Total/NA	Solid	5030C	
885-15993-5	TB-W22A	Total/NA	Solid	5030C	
885-15993-6	TB-W24A	Total/NA	Solid	5030C	
885-15993-7	TB-W26A	Total/NA	Solid	5030C	
885-15993-8	TB-W28A	Total/NA	Solid	5030C	
885-15993-9	TB-W29A	Total/NA	Solid	5030C	
885-15993-10	TB-W30A	Total/NA	Solid	5030C	
885-15993-11	TB-W32A	Total/NA	Solid	5030C	
885-15993-12	TB-W33A	Total/NA	Solid	5030C	
885-15993-13	TB-W34A	Total/NA	Solid	5030C	
885-15993-14	TB-W35A	Total/NA	Solid	5030C	
885-15993-15	TB-IW3A	Total/NA	Solid	5030C	
885-15993-16	TB-IW4A	Total/NA	Solid	5030C	
885-15993-17	TB-IW6A	Total/NA	Solid	5030C	
885-15993-18	TB-IW8A	Total/NA	Solid	5030C	
885-15993-19	TB-IW9A	Total/NA	Solid	5030C	
885-15993-20	TB-IW10A	Total/NA	Solid	5030C	
MB 885-16748/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-16748/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-16748/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-15993-1 MS	TB-W18A	Total/NA	Solid	5030C	
885-15993-1 MSD	TB-W18A	Total/NA	Solid	5030C	
885-15993-2 MS	TB-W19A	Total/NA	Solid	5030C	
885-15993-2 MSD	TB-W19A	Total/NA	Solid	5030C	

Prep Batch: 16756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-21	TB-IW12A	Total/NA	Solid	5030C	
885-15993-22	TB-IW14A	Total/NA	Solid	5030C	
885-15993-23	TB-IW15A	Total/NA	Solid	5030C	
885-15993-24	TB-IW17A	Total/NA	Solid	5030C	
885-15993-25	TB-IW18	Total/NA	Solid	5030C	
MB 885-16756/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-16756/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-16756/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-15993-22 MS	TB-IW14A	Total/NA	Solid	5030C	
885-15993-22 MSD	TB-IW14A	Total/NA	Solid	5030C	
885-15993-23 MS	TB-IW15A	Total/NA	Solid	5030C	
885-15993-23 MSD	TB-IW15A	Total/NA	Solid	5030C	

Analysis Batch: 16796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-1	TB-W18A	Total/NA	Solid	8015M/D	16748
885-15993-2	TB-W19A	Total/NA	Solid	8015M/D	16748
885-15993-3	TB-W20A	Total/NA	Solid	8015M/D	16748
885-15993-4	TB-W21A	Total/NA	Solid	8015M/D	16748
885-15993-5	TB-W22A	Total/NA	Solid	8015M/D	16748
885-15993-6	TB-W24A	Total/NA	Solid	8015M/D	16748

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

GC VOA (Continued)

Analysis Batch: 16796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-7	TB-W26A	Total/NA	Solid	8015M/D	16748
885-15993-8	TB-W28A	Total/NA	Solid	8015M/D	16748
885-15993-9	TB-W29A	Total/NA	Solid	8015M/D	16748
885-15993-10	TB-W30A	Total/NA	Solid	8015M/D	16748
885-15993-11	TB-W32A	Total/NA	Solid	8015M/D	16748
885-15993-12	TB-W33A	Total/NA	Solid	8015M/D	16748
885-15993-13	TB-W34A	Total/NA	Solid	8015M/D	16748
885-15993-14	TB-W35A	Total/NA	Solid	8015M/D	16748
885-15993-15	TB-IW3A	Total/NA	Solid	8015M/D	16748
885-15993-16	TB-IW4A	Total/NA	Solid	8015M/D	16748
885-15993-17	TB-IW6A	Total/NA	Solid	8015M/D	16748
885-15993-18	TB-IW8A	Total/NA	Solid	8015M/D	16748
885-15993-19	TB-IW9A	Total/NA	Solid	8015M/D	16748
885-15993-20	TB-IW10A	Total/NA	Solid	8015M/D	16748
MB 885-16748/1-A	Method Blank	Total/NA	Solid	8015M/D	16748
LCS 885-16748/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	16748
885-15993-1 MS	TB-W18A	Total/NA	Solid	8015M/D	16748
885-15993-1 MSD	TB-W18A	Total/NA	Solid	8015M/D	16748

Analysis Batch: 16797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-1	TB-W18A	Total/NA	Solid	8021B	16748
885-15993-2	TB-W19A	Total/NA	Solid	8021B	16748
885-15993-3	TB-W20A	Total/NA	Solid	8021B	16748
885-15993-4	TB-W21A	Total/NA	Solid	8021B	16748
885-15993-5	TB-W22A	Total/NA	Solid	8021B	16748
885-15993-6	TB-W24A	Total/NA	Solid	8021B	16748
885-15993-7	TB-W26A	Total/NA	Solid	8021B	16748
885-15993-8	TB-W28A	Total/NA	Solid	8021B	16748
885-15993-9	TB-W29A	Total/NA	Solid	8021B	16748
885-15993-10	TB-W30A	Total/NA	Solid	8021B	16748
885-15993-11	TB-W32A	Total/NA	Solid	8021B	16748
885-15993-12	TB-W33A	Total/NA	Solid	8021B	16748
885-15993-13	TB-W34A	Total/NA	Solid	8021B	16748
885-15993-14	TB-W35A	Total/NA	Solid	8021B	16748
885-15993-15	TB-IW3A	Total/NA	Solid	8021B	16748
885-15993-16	TB-IW4A	Total/NA	Solid	8021B	16748
885-15993-17	TB-IW6A	Total/NA	Solid	8021B	16748
885-15993-18	TB-IW8A	Total/NA	Solid	8021B	16748
885-15993-19	TB-IW9A	Total/NA	Solid	8021B	16748
885-15993-20	TB-IW10A	Total/NA	Solid	8021B	16748
MB 885-16748/1-A	Method Blank	Total/NA	Solid	8021B	16748
LCS 885-16748/3-A	Lab Control Sample	Total/NA	Solid	8021B	16748
885-15993-2 MS	TB-W19A	Total/NA	Solid	8021B	16748
885-15993-2 MSD	TB-W19A	Total/NA	Solid	8021B	16748

Analysis Batch: 16860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-21	TB-IW12A	Total/NA	Solid	8021B	16756
885-15993-22	TB-IW14A	Total/NA	Solid	8021B	16756
885-15993-23	TB-IW15A	Total/NA	Solid	8021B	16756

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

GC VOA (Continued)

Analysis Batch: 16860 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-24	TB-IW17A	Total/NA	Solid	8021B	16756
885-15993-25	TB-IW18	Total/NA	Solid	8021B	16756
MB 885-16756/1-A	Method Blank	Total/NA	Solid	8021B	16756
LCS 885-16756/3-A	Lab Control Sample	Total/NA	Solid	8021B	16756
885-15993-23 MS	TB-IW15A	Total/NA	Solid	8021B	16756
885-15993-23 MSD	TB-IW15A	Total/NA	Solid	8021B	16756

Analysis Batch: 16861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-21	TB-IW12A	Total/NA	Solid	8015M/D	16756
885-15993-22	TB-IW14A	Total/NA	Solid	8015M/D	16756
885-15993-23	TB-IW15A	Total/NA	Solid	8015M/D	16756
885-15993-24	TB-IW17A	Total/NA	Solid	8015M/D	16756
885-15993-25	TB-IW18	Total/NA	Solid	8015M/D	16756
MB 885-16756/1-A	Method Blank	Total/NA	Solid	8015M/D	16756
LCS 885-16756/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	16756
885-15993-22 MS	TB-IW14A	Total/NA	Solid	8015M/D	16756
885-15993-22 MSD	TB-IW14A	Total/NA	Solid	8015M/D	16756

GC Semi VOA

Analysis Batch: 16826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-1	TB-W18A	Total/NA	Solid	8015M/D	16837
885-15993-2	TB-W19A	Total/NA	Solid	8015M/D	16837
885-15993-3	TB-W20A	Total/NA	Solid	8015M/D	16837
885-15993-4	TB-W21A	Total/NA	Solid	8015M/D	16837
885-15993-5	TB-W22A	Total/NA	Solid	8015M/D	16837
885-15993-6	TB-W24A	Total/NA	Solid	8015M/D	16837
885-15993-7	TB-W26A	Total/NA	Solid	8015M/D	16837
885-15993-8	TB-W28A	Total/NA	Solid	8015M/D	16837
885-15993-9	TB-W29A	Total/NA	Solid	8015M/D	16837
885-15993-10	TB-W30A	Total/NA	Solid	8015M/D	16837
885-15993-11	TB-W32A	Total/NA	Solid	8015M/D	16837
885-15993-12	TB-W33A	Total/NA	Solid	8015M/D	16837
885-15993-14	TB-W35A	Total/NA	Solid	8015M/D	16837
885-15993-15	TB-IW3A	Total/NA	Solid	8015M/D	16837
885-15993-16	TB-IW4A	Total/NA	Solid	8015M/D	16837
885-15993-17	TB-IW6A	Total/NA	Solid	8015M/D	16837
885-15993-18	TB-IW8A	Total/NA	Solid	8015M/D	16837
885-15993-19	TB-IW9A	Total/NA	Solid	8015M/D	16837
885-15993-20	TB-IW10A	Total/NA	Solid	8015M/D	16837
MB 885-16837/1-A	Method Blank	Total/NA	Solid	8015M/D	16837
LCS 885-16837/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	16837
885-15993-14 MS	TB-W35A	Total/NA	Solid	8015M/D	16837
885-15993-14 MSD	TB-W35A	Total/NA	Solid	8015M/D	16837

Prep Batch: 16827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-21	TB-IW12A	Total/NA	Solid	SHAKE	
885-15993-22	TB-IW14A	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

GC Semi VOA (Continued)

Prep Batch: 16827 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-23	TB-IW15A	Total/NA	Solid	SHAKE	
885-15993-24	TB-IW17A	Total/NA	Solid	SHAKE	
885-15993-25	TB-IW18	Total/NA	Solid	SHAKE	
MB 885-16827/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-16827/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 16831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-21	TB-IW12A	Total/NA	Solid	8015M/D	16827
885-15993-22	TB-IW14A	Total/NA	Solid	8015M/D	16827
885-15993-23	TB-IW15A	Total/NA	Solid	8015M/D	16827
885-15993-24	TB-IW17A	Total/NA	Solid	8015M/D	16827
885-15993-25	TB-IW18	Total/NA	Solid	8015M/D	16827
MB 885-16827/1-A	Method Blank	Total/NA	Solid	8015M/D	16827
LCS 885-16827/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	16827

Prep Batch: 16837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-1	TB-W18A	Total/NA	Solid	SHAKE	
885-15993-2	TB-W19A	Total/NA	Solid	SHAKE	
885-15993-3	TB-W20A	Total/NA	Solid	SHAKE	
885-15993-4	TB-W21A	Total/NA	Solid	SHAKE	
885-15993-5	TB-W22A	Total/NA	Solid	SHAKE	
885-15993-6	TB-W24A	Total/NA	Solid	SHAKE	
885-15993-7	TB-W26A	Total/NA	Solid	SHAKE	
885-15993-8	TB-W28A	Total/NA	Solid	SHAKE	
885-15993-9	TB-W29A	Total/NA	Solid	SHAKE	
885-15993-10	TB-W30A	Total/NA	Solid	SHAKE	
885-15993-11	TB-W32A	Total/NA	Solid	SHAKE	
885-15993-12	TB-W33A	Total/NA	Solid	SHAKE	
885-15993-13	TB-W34A	Total/NA	Solid	SHAKE	
885-15993-14	TB-W35A	Total/NA	Solid	SHAKE	
885-15993-15	TB-IW3A	Total/NA	Solid	SHAKE	
885-15993-16	TB-IW4A	Total/NA	Solid	SHAKE	
885-15993-17	TB-IW6A	Total/NA	Solid	SHAKE	
885-15993-18	TB-IW8A	Total/NA	Solid	SHAKE	
885-15993-19	TB-IW9A	Total/NA	Solid	SHAKE	
885-15993-20	TB-IW10A	Total/NA	Solid	SHAKE	
MB 885-16837/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-16837/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-15993-14 MS	TB-W35A	Total/NA	Solid	SHAKE	
885-15993-14 MSD	TB-W35A	Total/NA	Solid	SHAKE	

Analysis Batch: 16930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-13	TB-W34A	Total/NA	Solid	8015M/D	16837

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

HPLC/IC

Prep Batch: 16763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-1	TB-W18A	Total/NA	Solid	300_Prep	
885-15993-2	TB-W19A	Total/NA	Solid	300_Prep	
885-15993-3	TB-W20A	Total/NA	Solid	300_Prep	
885-15993-4	TB-W21A	Total/NA	Solid	300_Prep	
885-15993-5	TB-W22A	Total/NA	Solid	300_Prep	
885-15993-6	TB-W24A	Total/NA	Solid	300_Prep	
885-15993-7	TB-W26A	Total/NA	Solid	300_Prep	
885-15993-8	TB-W28A	Total/NA	Solid	300_Prep	
885-15993-9	TB-W29A	Total/NA	Solid	300_Prep	
885-15993-10	TB-W30A	Total/NA	Solid	300_Prep	
885-15993-11	TB-W32A	Total/NA	Solid	300_Prep	
885-15993-12	TB-W33A	Total/NA	Solid	300_Prep	
885-15993-13	TB-W34A	Total/NA	Solid	300_Prep	
885-15993-14	TB-W35A	Total/NA	Solid	300_Prep	
885-15993-15	TB-IW3A	Total/NA	Solid	300_Prep	
885-15993-16	TB-IW4A	Total/NA	Solid	300_Prep	
885-15993-17	TB-IW6A	Total/NA	Solid	300_Prep	
885-15993-18	TB-IW8A	Total/NA	Solid	300_Prep	
885-15993-19	TB-IW9A	Total/NA	Solid	300_Prep	
885-15993-20	TB-IW10A	Total/NA	Solid	300_Prep	
MB 885-16763/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-16763/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 16771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-1	TB-W18A	Total/NA	Solid	300.0	16763
885-15993-2	TB-W19A	Total/NA	Solid	300.0	16763
885-15993-3	TB-W20A	Total/NA	Solid	300.0	16763
885-15993-4	TB-W21A	Total/NA	Solid	300.0	16763
885-15993-5	TB-W22A	Total/NA	Solid	300.0	16763
885-15993-6	TB-W24A	Total/NA	Solid	300.0	16763
885-15993-7	TB-W26A	Total/NA	Solid	300.0	16763
885-15993-8	TB-W28A	Total/NA	Solid	300.0	16763
885-15993-9	TB-W29A	Total/NA	Solid	300.0	16763
885-15993-10	TB-W30A	Total/NA	Solid	300.0	16763
885-15993-11	TB-W32A	Total/NA	Solid	300.0	16763
885-15993-12	TB-W33A	Total/NA	Solid	300.0	16763
885-15993-13	TB-W34A	Total/NA	Solid	300.0	16763
885-15993-14	TB-W35A	Total/NA	Solid	300.0	16763
885-15993-15	TB-IW3A	Total/NA	Solid	300.0	16763
885-15993-16	TB-IW4A	Total/NA	Solid	300.0	16763
885-15993-17	TB-IW6A	Total/NA	Solid	300.0	16763
885-15993-18	TB-IW8A	Total/NA	Solid	300.0	16763
885-15993-19	TB-IW9A	Total/NA	Solid	300.0	16763
885-15993-20	TB-IW10A	Total/NA	Solid	300.0	16763
MB 885-16763/1-A	Method Blank	Total/NA	Solid	300.0	16763
LCS 885-16763/2-A	Lab Control Sample	Total/NA	Solid	300.0	16763

Prep Batch: 16775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-21	TB-IW12A	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

HPLC/IC (Continued)

Prep Batch: 16775 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-22	TB-IW14A	Total/NA	Solid	300_Prep	
885-15993-23	TB-IW15A	Total/NA	Solid	300_Prep	
885-15993-24	TB-IW17A	Total/NA	Solid	300_Prep	
885-15993-25	TB-IW18	Total/NA	Solid	300_Prep	
MB 885-16775/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-16775/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 16799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15993-21	TB-IW12A	Total/NA	Solid	300.0	16775
885-15993-22	TB-IW14A	Total/NA	Solid	300.0	16775
885-15993-23	TB-IW15A	Total/NA	Solid	300.0	16775
885-15993-24	TB-IW17A	Total/NA	Solid	300.0	16775
885-15993-25	TB-IW18	Total/NA	Solid	300.0	16775
MB 885-16775/1-A	Method Blank	Total/NA	Solid	300.0	16775
LCS 885-16775/2-A	Lab Control Sample	Total/NA	Solid	300.0	16775

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W18A

Lab Sample ID: 885-15993-1
Matrix: Solid
Date Collected: 11/25/24 09:18
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 10:34
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 10:34
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 14:16
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 14:55

Client Sample ID: TB-W19A

Lab Sample ID: 885-15993-2
Matrix: Solid
Date Collected: 11/25/24 09:54
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 11:45
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 11:45
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 14:29
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 15:24

Client Sample ID: TB-W20A

Lab Sample ID: 885-15993-3
Matrix: Solid
Date Collected: 11/25/24 09:56
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 12:55
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 12:55
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 14:41
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 15:34

Client Sample ID: TB-W21A

Lab Sample ID: 885-15993-4
Matrix: Solid
Date Collected: 11/25/24 10:00
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 13:19

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W21A
Lab Sample ID: 885-15993-4
Date Collected: 11/25/24 10:00
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 13:19
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 14:54
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 15:44

Client Sample ID: TB-W22A
Lab Sample ID: 885-15993-5
Date Collected: 11/25/24 10:02
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 13:43
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 13:43
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 15:06
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 15:54

Client Sample ID: TB-W24A
Lab Sample ID: 885-15993-6
Date Collected: 11/25/24 10:04
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 14:07
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 14:07
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 15:18
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 16:04

Client Sample ID: TB-W26A
Lab Sample ID: 885-15993-7
Date Collected: 11/25/24 10:10
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 14:30
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 14:30

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W26A

Lab Sample ID: 885-15993-7

Date Collected: 11/25/24 10:10
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 15:31
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 16:33

Client Sample ID: TB-W28A

Lab Sample ID: 885-15993-8

Date Collected: 11/25/24 10:12
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 14:54
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 14:54
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 15:43
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 16:43

Client Sample ID: TB-W29A

Lab Sample ID: 885-15993-9

Date Collected: 11/25/24 10:20
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 15:18
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 15:18
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 16:08
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 16:53

Client Sample ID: TB-W30A

Lab Sample ID: 885-15993-10

Date Collected: 11/25/24 10:24
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 15:42
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 15:42
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 16:21

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W30A

Lab Sample ID: 885-15993-10
Matrix: Solid
Date Collected: 11/25/24 10:24
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 17:03

Client Sample ID: TB-W32A

Lab Sample ID: 885-15993-11
Matrix: Solid
Date Collected: 11/25/24 10:30
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 16:30
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 16:30
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 16:33
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 17:13

Client Sample ID: TB-W33A

Lab Sample ID: 885-15993-12
Matrix: Solid
Date Collected: 11/25/24 11:10
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 16:53
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 16:53
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 17:19
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 17:42

Client Sample ID: TB-W34A

Lab Sample ID: 885-15993-13
Matrix: Solid
Date Collected: 11/25/24 11:12
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 17:17
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 17:17
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		10	16930	MI	EET ALB	12/03/24 14:06
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 17:52

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-W35A

Lab Sample ID: 885-15993-14
Matrix: Solid
Date Collected: 11/25/24 11:14
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 17:41
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 17:41
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/03/24 11:50
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 18:02

Client Sample ID: TB-IW3A

Lab Sample ID: 885-15993-15
Matrix: Solid
Date Collected: 11/25/24 11:16
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 18:04
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 18:04
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 18:20
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 18:31

Client Sample ID: TB-IW4A

Lab Sample ID: 885-15993-16
Matrix: Solid
Date Collected: 11/25/24 11:18
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 18:28
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 18:28
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 18:32
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 18:41

Client Sample ID: TB-IW6A

Lab Sample ID: 885-15993-17
Matrix: Solid
Date Collected: 11/25/24 11:24
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 18:52

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-IW6A

Lab Sample ID: 885-15993-17

Date Collected: 11/25/24 11:24
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 18:52
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 18:56
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 18:51

Client Sample ID: TB-IW8A

Lab Sample ID: 885-15993-18

Date Collected: 11/25/24 11:30
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 19:15
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 19:15
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 19:08
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 19:01

Client Sample ID: TB-IW9A

Lab Sample ID: 885-15993-19

Date Collected: 11/25/24 11:32
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 19:39
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 19:39
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 19:20
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 19:11

Client Sample ID: TB-IW10A

Lab Sample ID: 885-15993-20

Date Collected: 11/25/24 11:40
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8015M/D		1	16796	JP	EET ALB	12/02/24 20:02
Total/NA	Prep	5030C			16748	JP	EET ALB	11/27/24 10:23
Total/NA	Analysis	8021B		1	16797	JP	EET ALB	12/02/24 20:02

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-15993-1

Client Sample ID: TB-IW10A

Lab Sample ID: 885-15993-20
Matrix: Solid
Date Collected: 11/25/24 11:40
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			16837	EM	EET ALB	12/02/24 11:55
Total/NA	Analysis	8015M/D		1	16826	MI	EET ALB	12/02/24 19:32
Total/NA	Prep	300_Prep			16763	EH	EET ALB	11/27/24 12:41
Total/NA	Analysis	300.0		20	16771	EH	EET ALB	11/27/24 19:21

Client Sample ID: TB-IW12A

Lab Sample ID: 885-15993-21
Matrix: Solid
Date Collected: 11/25/24 11:42
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16756	JP	EET ALB	11/27/24 11:37
Total/NA	Analysis	8015M/D		1	16861	JP	EET ALB	12/02/24 22:46
Total/NA	Prep	5030C			16756	JP	EET ALB	11/27/24 11:37
Total/NA	Analysis	8021B		1	16860	JP	EET ALB	12/02/24 22:46
Total/NA	Prep	SHAKE			16827	EM	EET ALB	12/02/24 11:08
Total/NA	Analysis	8015M/D		1	16831	MI	EET ALB	12/02/24 13:28
Total/NA	Prep	300_Prep			16775	EH	EET ALB	11/27/24 14:36
Total/NA	Analysis	300.0		20	16799	JT	EET ALB	12/02/24 10:12

Client Sample ID: TB-IW14A

Lab Sample ID: 885-15993-22
Matrix: Solid
Date Collected: 11/25/24 11:46
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16756	JP	EET ALB	11/27/24 11:37
Total/NA	Analysis	8015M/D		1	16861	JP	EET ALB	12/02/24 23:10
Total/NA	Prep	5030C			16756	JP	EET ALB	11/27/24 11:37
Total/NA	Analysis	8021B		1	16860	JP	EET ALB	12/02/24 23:10
Total/NA	Prep	SHAKE			16827	EM	EET ALB	12/02/24 11:08
Total/NA	Analysis	8015M/D		1	16831	MI	EET ALB	12/02/24 13:38
Total/NA	Prep	300_Prep			16775	EH	EET ALB	11/27/24 14:36
Total/NA	Analysis	300.0		20	16799	JT	EET ALB	12/02/24 10:43

Client Sample ID: TB-IW15A

Lab Sample ID: 885-15993-23
Matrix: Solid
Date Collected: 11/25/24 11:50
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16756	JP	EET ALB	11/27/24 11:37
Total/NA	Analysis	8015M/D		1	16861	JP	EET ALB	12/03/24 00:20
Total/NA	Prep	5030C			16756	JP	EET ALB	11/27/24 11:37
Total/NA	Analysis	8021B		1	16860	JP	EET ALB	12/03/24 00:20
Total/NA	Prep	SHAKE			16827	EM	EET ALB	12/02/24 11:08
Total/NA	Analysis	8015M/D		1	16831	MI	EET ALB	12/02/24 13:49

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-15993-1
Project/Site: Roy SWD #3

Client Sample ID: TB-IW15A
Lab Sample ID: 885-15993-23
Date Collected: 11/25/24 11:50
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			16775	EH	EET ALB	11/27/24 14:36
Total/NA	Analysis	300.0		20	16799	JT	EET ALB	12/02/24 10:53

Client Sample ID: TB-IW17A
Lab Sample ID: 885-15993-24
Date Collected: 11/25/24 11:54
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16756	JP	EET ALB	11/27/24 11:37
Total/NA	Analysis	8015M/D		1	16861	JP	EET ALB	12/03/24 01:29
Total/NA	Prep	5030C			16756	JP	EET ALB	11/27/24 11:37
Total/NA	Analysis	8021B		1	16860	JP	EET ALB	12/03/24 01:29
Total/NA	Prep	SHAKE			16827	EM	EET ALB	12/02/24 11:08
Total/NA	Analysis	8015M/D		1	16831	MI	EET ALB	12/02/24 13:59
Total/NA	Prep	300_Prep			16775	EH	EET ALB	11/27/24 14:36
Total/NA	Analysis	300.0		20	16799	JT	EET ALB	12/02/24 11:03

Client Sample ID: TB-IW18
Lab Sample ID: 885-15993-25
Date Collected: 11/25/24 11:58
Matrix: Solid
Date Received: 11/27/24 07:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			16756	JP	EET ALB	11/27/24 11:37
Total/NA	Analysis	8015M/D		1	16861	JP	EET ALB	12/03/24 01:53
Total/NA	Prep	5030C			16756	JP	EET ALB	11/27/24 11:37
Total/NA	Analysis	8021B		1	16860	JP	EET ALB	12/03/24 01:53
Total/NA	Prep	SHAKE			16827	EM	EET ALB	12/02/24 11:08
Total/NA	Analysis	8015M/D		1	16831	MI	EET ALB	12/02/24 14:10
Total/NA	Prep	300_Prep			16775	EH	EET ALB	11/27/24 14:36
Total/NA	Analysis	300.0		20	16799	JT	EET ALB	12/02/24 11:34

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-15993-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-15993 COC

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 48 hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 1.1 ± 0 = 1.1 °C

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/25/24	0948	Soil	TB-W18A	4oz Jars	ICE	1	X	X	X
	0954		TB-W19A			2			
	0956		TB-W20A			3			
	1000		TB-W21A			4			
	1002		TB-W22A			5			
	1004		TB-W24A			6			
	1010		TB-W26A			7			
	1012		TB-W28A			8			
	1020		TB-W29A			9			
	1024		TB-W30A			10			
	1030		TB-W32A			11			
	1110		TB-W33A			12			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/26/24	930				11/26/24	930
11/26/24	1900			courier	11/27/24	7:47

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other
■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☑ Rush 48 hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.1 +0 = 1.1 °C mgs

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/25/24	1112	Soil	TB-W34A	4oz jar	ICE	13	X	X	X
	1114		TB-W35A			14			
	1116		TB-IW3A			15			
	1118		TB-IW4A			16			
	1124		TB-IW6A			17			
	1130		TB-IW8A			18			
	1132		TB-IW9A			19			
	1140		TB-IW10A			20			
	1142		TB-IW12A			21			
	1146		TB-IW14A			22			
	1150		TB-IW15A			23			
	1154		TB-IW17A			24			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/26/24	0850				11/26/24	930
11/26/24	1900			courier	11/27/24	7:47

Remarks: Bill to EOG ~~Artesia~~ MIDLAND

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☑ **Rush** 48 hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.1 +0 = 1.1 c Imgo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
11/25/24	[illegible]	Soil	TB-IW 18	4oz Jar	ICE	25	X	X	X

Analysis Request

Relinquished by:	Received by:	Via:	Date	Time
			11/26/24	930
		courier	11/27/24	7:42

Remarks: Bill to EOG ~~Artesia~~ MIDLAND

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

12/5/2024

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Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-15993-1

Login Number: 15993 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 12/13/2024 9:43:46 AM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-16600-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

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Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
12/13/2024 9:43:46 AM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Released to Imaging: 9/3/2025 1:20:26 PM

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-16600-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-16600-1
Project/Site: Roy SWD #3

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-16600-1

Job ID: 885-16600-1 Eurofins Albuquerque

Job Narrative
885-16600-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/10/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16600-1

Client Sample ID: TB-W29 B

Date Collected: 12/09/24 10:30
Date Received: 12/10/24 08:00

Lab Sample ID: 885-16600-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.3		mg/Kg		12/10/24 09:50	12/10/24 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*12/10/24 09:50*	*12/10/24 13:29*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.027		mg/Kg		12/10/24 09:50	12/10/24 13:29	1
Ethylbenzene	ND		0.053		mg/Kg		12/10/24 09:50	12/10/24 13:29	1
Toluene	ND		0.053		mg/Kg		12/10/24 09:50	12/10/24 13:29	1
Xylenes, Total	ND		0.11		mg/Kg		12/10/24 09:50	12/10/24 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*48 - 145*	*12/10/24 09:50*	*12/10/24 13:29*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		12/10/24 15:50	12/11/24 10:40	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/10/24 15:50	12/11/24 10:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*12/10/24 15:50*	*12/11/24 10:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**580**		60		mg/Kg		12/10/24 13:25	12/10/24 21:05	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16600-1

Client Sample ID: TB-IW6B

Date Collected: 12/09/24 10:34
Date Received: 12/10/24 08:00

Lab Sample ID: 885-16600-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.4		mg/Kg		12/10/24 09:50	12/10/24 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*12/10/24 09:50*	*12/10/24 13:50*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg		12/10/24 09:50	12/10/24 13:50	1
Ethylbenzene	ND		0.044		mg/Kg		12/10/24 09:50	12/10/24 13:50	1
Toluene	ND		0.044		mg/Kg		12/10/24 09:50	12/10/24 13:50	1
Xylenes, Total	ND		0.088		mg/Kg		12/10/24 09:50	12/10/24 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*12/10/24 09:50*	*12/10/24 13:50*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		12/10/24 15:50	12/11/24 10:52	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/10/24 15:50	12/11/24 10:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*12/10/24 15:50*	*12/11/24 10:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**		60		mg/Kg		12/10/24 13:25	12/10/24 21:54	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16600-1

Client Sample ID: TB-IW8B

Date Collected: 12/09/24 10:36
Date Received: 12/10/24 08:00

Lab Sample ID: 885-16600-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.4		mg/Kg		12/10/24 09:50	12/10/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*12/10/24 09:50*	*12/10/24 14:12*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg		12/10/24 09:50	12/10/24 14:12	1
Ethylbenzene	ND		0.044		mg/Kg		12/10/24 09:50	12/10/24 14:12	1
Toluene	ND		0.044		mg/Kg		12/10/24 09:50	12/10/24 14:12	1
Xylenes, Total	ND		0.088		mg/Kg		12/10/24 09:50	12/10/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*12/10/24 09:50*	*12/10/24 14:12*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		12/10/24 15:50	12/11/24 11:04	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/10/24 15:50	12/11/24 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*12/10/24 15:50*	*12/11/24 11:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**		60		mg/Kg		12/10/24 13:25	12/10/24 22:04	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16600-1

Client Sample ID: TB-IW15B

Lab Sample ID: 885-16600-4

Date Collected: 12/09/24 10:40
Matrix: Solid
Date Received: 12/10/24 08:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.1		mg/Kg		12/10/24 09:50	12/10/24 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*12/10/24 09:50*	*12/10/24 14:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		12/10/24 09:50	12/10/24 14:34	1
Ethylbenzene	ND		0.041		mg/Kg		12/10/24 09:50	12/10/24 14:34	1
Toluene	ND		0.041		mg/Kg		12/10/24 09:50	12/10/24 14:34	1
Xylenes, Total	ND		0.081		mg/Kg		12/10/24 09:50	12/10/24 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*12/10/24 09:50*	*12/10/24 14:34*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14**		9.2		mg/Kg		12/10/24 15:50	12/11/24 11:16	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		12/10/24 15:50	12/11/24 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*12/10/24 15:50*	*12/11/24 11:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**460**		60		mg/Kg		12/10/24 13:25	12/10/24 22:14	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16600-1

Client Sample ID: TB-IW17B

Date Collected: 12/09/24 10:42
Date Received: 12/10/24 08:00

Lab Sample ID: 885-16600-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.3		mg/Kg		12/10/24 09:50	12/10/24 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*12/10/24 09:50*	*12/10/24 14:56*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg		12/10/24 09:50	12/10/24 14:56	1
Ethylbenzene	ND		0.043		mg/Kg		12/10/24 09:50	12/10/24 14:56	1
Toluene	ND		0.043		mg/Kg		12/10/24 09:50	12/10/24 14:56	1
Xylenes, Total	ND		0.086		mg/Kg		12/10/24 09:50	12/10/24 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*12/10/24 09:50*	*12/10/24 14:56*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		12/10/24 16:15	12/11/24 11:28	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		12/10/24 16:15	12/11/24 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*12/10/24 16:15*	*12/11/24 11:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**550**		61		mg/Kg		12/10/24 13:25	12/10/24 22:43	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16600-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-17375/6
Matrix: Solid
Analysis Batch: 17375

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg			12/10/24 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*		*12/10/24 11:47*	*1*

Lab Sample ID: LCS 885-17391/2-A
Matrix: Solid
Analysis Batch: 17375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17391

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	21.7		mg/Kg		87	70 - 130		
Gasoline Range Organics (GRO)-C6-C10			25.0	21.7		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*188*		*35 - 166*
4-Bromofluorobenzene (Surr)	*188*		*35 - 166*

Lab Sample ID: 885-16600-1 MS
Matrix: Solid
Analysis Batch: 17458

Client Sample ID: TB-W29 B
Prep Type: Total/NA
Prep Batch: 17391

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		26.5	26.2		mg/Kg		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*188*		*35 - 166*

Lab Sample ID: 885-16600-1 MSD
Matrix: Solid
Analysis Batch: 17458

Client Sample ID: TB-W29 B
Prep Type: Total/NA
Prep Batch: 17391

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		26.5	26.1		mg/Kg		98	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*186*		*35 - 166*

Lab Sample ID: MB 885-17458/6
Matrix: Solid
Analysis Batch: 17458

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg			12/10/24 11:47	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16600-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166		12/10/24 11:47	1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-17376/6
Matrix: Solid
Analysis Batch: 17376

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg			12/10/24 11:47	1
Ethylbenzene	ND		0.050		mg/Kg			12/10/24 11:47	1
Toluene	ND		0.050		mg/Kg			12/10/24 11:47	1
Xylenes, Total	ND		0.10		mg/Kg			12/10/24 11:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		48 - 145		12/10/24 11:47	1

Lab Sample ID: LCS 885-17391/3-A
Matrix: Solid
Analysis Batch: 17376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17391

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.935		mg/Kg		94	70 - 130		
Benzene			1.00	0.935		mg/Kg		94	70 - 130		
Ethylbenzene			1.00	0.959		mg/Kg		96	70 - 130		
Ethylbenzene			1.00	0.959		mg/Kg		96	70 - 130		
m,p-Xylene			2.00	1.93		mg/Kg		97	70 - 130		
m,p-Xylene			2.00	1.93		mg/Kg		97	70 - 130		
o-Xylene			1.00	0.961		mg/Kg		96	70 - 130		
o-Xylene			1.00	0.961		mg/Kg		96	70 - 130		
Toluene			1.00	0.943		mg/Kg		94	70 - 130		
Toluene			1.00	0.943		mg/Kg		94	70 - 130		
Xylenes, Total			3.00	2.89		mg/Kg		96	70 - 130		
Xylenes, Total			3.00	2.89		mg/Kg		96	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		48 - 145
4-Bromofluorobenzene (Surr)	108		48 - 145

Lab Sample ID: 885-16600-2 MS
Matrix: Solid
Analysis Batch: 17459

Client Sample ID: TB-IW6B
Prep Type: Total/NA
Prep Batch: 17391

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.884	0.869		mg/Kg		98	70 - 130		
Ethylbenzene	ND		0.884	0.875		mg/Kg		99	70 - 130		
m,p-Xylene	ND		1.77	1.75		mg/Kg		99	70 - 130		
o-Xylene	ND		0.884	0.868		mg/Kg		98	70 - 130		
Toluene	ND		0.884	0.870		mg/Kg		98	70 - 130		
Xylenes, Total	ND		2.65	2.62		mg/Kg		99	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16600-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-16600-2 MS
Matrix: Solid
Analysis Batch: 17459

Client Sample ID: TB-IW6B
Prep Type: Total/NA
Prep Batch: 17391

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		48 - 145

Lab Sample ID: 885-16600-2 MSD
Matrix: Solid
Analysis Batch: 17459

Client Sample ID: TB-IW6B
Prep Type: Total/NA
Prep Batch: 17391

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.884	0.855		mg/Kg		97	70 - 130	2	20
Ethylbenzene	ND		0.884	0.865		mg/Kg		98	70 - 130	1	20
m,p-Xylene	ND		1.77	1.73		mg/Kg		98	70 - 130	1	20
o-Xylene	ND		0.884	0.873		mg/Kg		99	70 - 130	1	20
Toluene	ND		0.884	0.863		mg/Kg		98	70 - 130	1	20
Xylenes, Total	ND		2.65	2.61		mg/Kg		98	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		48 - 145

Lab Sample ID: MB 885-17459/6
Matrix: Solid
Analysis Batch: 17459

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg			12/10/24 11:47	1
Ethylbenzene	ND		0.050		mg/Kg			12/10/24 11:47	1
Toluene	ND		0.050		mg/Kg			12/10/24 11:47	1
Xylenes, Total	ND		0.10		mg/Kg			12/10/24 11:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		48 - 145		12/10/24 11:47	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-17419/1-A
Matrix: Solid
Analysis Batch: 17383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17419

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		12/10/24 13:25	12/10/24 20:45	1

Lab Sample ID: LCS 885-17419/2-A
Matrix: Solid
Analysis Batch: 17383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17419

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.2		mg/Kg		97	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16600-1

GC VOA

Analysis Batch: 17375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16600-1	TB-W29 B	Total/NA	Solid	8015M/D	17391
885-16600-2	TB-IW6B	Total/NA	Solid	8015M/D	17391
885-16600-3	TB-IW8B	Total/NA	Solid	8015M/D	17391
885-16600-4	TB-IW15B	Total/NA	Solid	8015M/D	17391
885-16600-5	TB-IW17B	Total/NA	Solid	8015M/D	17391
MB 885-17375/6	Method Blank	Total/NA	Solid	8015M/D	
LCS 885-17391/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	17391

Analysis Batch: 17376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16600-1	TB-W29 B	Total/NA	Solid	8021B	17391
885-16600-2	TB-IW6B	Total/NA	Solid	8021B	17391
885-16600-3	TB-IW8B	Total/NA	Solid	8021B	17391
885-16600-4	TB-IW15B	Total/NA	Solid	8021B	17391
885-16600-5	TB-IW17B	Total/NA	Solid	8021B	17391
MB 885-17376/6	Method Blank	Total/NA	Solid	8021B	
LCS 885-17391/3-A	Lab Control Sample	Total/NA	Solid	8021B	17391

Prep Batch: 17391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16600-1	TB-W29 B	Total/NA	Solid	5035	
885-16600-2	TB-IW6B	Total/NA	Solid	5035	
885-16600-3	TB-IW8B	Total/NA	Solid	5035	
885-16600-4	TB-IW15B	Total/NA	Solid	5035	
885-16600-5	TB-IW17B	Total/NA	Solid	5035	
LCS 885-17391/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-17391/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-16600-1 MS	TB-W29 B	Total/NA	Solid	5035	
885-16600-1 MSD	TB-W29 B	Total/NA	Solid	5035	
885-16600-2 MS	TB-IW6B	Total/NA	Solid	5035	
885-16600-2 MSD	TB-IW6B	Total/NA	Solid	5035	

Analysis Batch: 17458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-17458/6	Method Blank	Total/NA	Solid	8015M/D	
LCS 885-17391/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	17391
885-16600-1 MS	TB-W29 B	Total/NA	Solid	8015M/D	17391
885-16600-1 MSD	TB-W29 B	Total/NA	Solid	8015M/D	17391

Analysis Batch: 17459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-17459/6	Method Blank	Total/NA	Solid	8021B	
LCS 885-17391/3-A	Lab Control Sample	Total/NA	Solid	8021B	17391
885-16600-2 MS	TB-IW6B	Total/NA	Solid	8021B	17391
885-16600-2 MSD	TB-IW6B	Total/NA	Solid	8021B	17391

GC Semi VOA

Prep Batch: 17439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16600-1	TB-W29 B	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16600-1

GC Semi VOA (Continued)

Prep Batch: 17439 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16600-2	TB-IW6B	Total/NA	Solid	SHAKE	
885-16600-3	TB-IW8B	Total/NA	Solid	SHAKE	
885-16600-4	TB-IW15B	Total/NA	Solid	SHAKE	
885-16600-5	TB-IW17B	Total/NA	Solid	SHAKE	

Analysis Batch: 17477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16600-1	TB-W29 B	Total/NA	Solid	8015M/D	17439
885-16600-2	TB-IW6B	Total/NA	Solid	8015M/D	17439
885-16600-3	TB-IW8B	Total/NA	Solid	8015M/D	17439
885-16600-4	TB-IW15B	Total/NA	Solid	8015M/D	17439
885-16600-5	TB-IW17B	Total/NA	Solid	8015M/D	17439

HPLC/IC

Analysis Batch: 17383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16600-1	TB-W29 B	Total/NA	Solid	300.0	17419
885-16600-2	TB-IW6B	Total/NA	Solid	300.0	17419
885-16600-3	TB-IW8B	Total/NA	Solid	300.0	17419
885-16600-4	TB-IW15B	Total/NA	Solid	300.0	17419
885-16600-5	TB-IW17B	Total/NA	Solid	300.0	17419
MB 885-17419/1-A	Method Blank	Total/NA	Solid	300.0	17419
LCS 885-17419/2-A	Lab Control Sample	Total/NA	Solid	300.0	17419

Prep Batch: 17419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16600-1	TB-W29 B	Total/NA	Solid	300_Prep	
885-16600-2	TB-IW6B	Total/NA	Solid	300_Prep	
885-16600-3	TB-IW8B	Total/NA	Solid	300_Prep	
885-16600-4	TB-IW15B	Total/NA	Solid	300_Prep	
885-16600-5	TB-IW17B	Total/NA	Solid	300_Prep	
MB 885-17419/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-17419/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16600-1

Client Sample ID: TB-W29 B

Lab Sample ID: 885-16600-1
Matrix: Solid
Date Collected: 12/09/24 10:30
Date Received: 12/10/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8015M/D		1	17375	AT	EET ALB	12/10/24 13:29
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8021B		1	17376	AT	EET ALB	12/10/24 13:29
Total/NA	Prep	SHAKE			17439	MI	EET ALB	12/10/24 15:50
Total/NA	Analysis	8015M/D		1	17477	MI	EET ALB	12/11/24 10:40
Total/NA	Prep	300_Prep			17419	JT	EET ALB	12/10/24 13:25
Total/NA	Analysis	300.0		20	17383	RC	EET ALB	12/10/24 21:05

Client Sample ID: TB-IW6B

Lab Sample ID: 885-16600-2
Matrix: Solid
Date Collected: 12/09/24 10:34
Date Received: 12/10/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8015M/D		1	17375	AT	EET ALB	12/10/24 13:50
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8021B		1	17376	AT	EET ALB	12/10/24 13:50
Total/NA	Prep	SHAKE			17439	MI	EET ALB	12/10/24 15:50
Total/NA	Analysis	8015M/D		1	17477	MI	EET ALB	12/11/24 10:52
Total/NA	Prep	300_Prep			17419	JT	EET ALB	12/10/24 13:25
Total/NA	Analysis	300.0		20	17383	RC	EET ALB	12/10/24 21:54

Client Sample ID: TB-IW8B

Lab Sample ID: 885-16600-3
Matrix: Solid
Date Collected: 12/09/24 10:36
Date Received: 12/10/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8015M/D		1	17375	AT	EET ALB	12/10/24 14:12
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8021B		1	17376	AT	EET ALB	12/10/24 14:12
Total/NA	Prep	SHAKE			17439	MI	EET ALB	12/10/24 15:50
Total/NA	Analysis	8015M/D		1	17477	MI	EET ALB	12/11/24 11:04
Total/NA	Prep	300_Prep			17419	JT	EET ALB	12/10/24 13:25
Total/NA	Analysis	300.0		20	17383	RC	EET ALB	12/10/24 22:04

Client Sample ID: TB-IW15B

Lab Sample ID: 885-16600-4
Matrix: Solid
Date Collected: 12/09/24 10:40
Date Received: 12/10/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8015M/D		1	17375	AT	EET ALB	12/10/24 14:34

Lab Chronicle

Client: Ranger Environmental Services, Inc
Job ID: 885-16600-1
Project/Site: Roy SWD #3

Client Sample ID: TB-IW15B
Lab Sample ID: 885-16600-4
Date Collected: 12/09/24 10:40
Matrix: Solid
Date Received: 12/10/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8021B		1	17376	AT	EET ALB	12/10/24 14:34
Total/NA	Prep	SHAKE			17439	MI	EET ALB	12/10/24 15:50
Total/NA	Analysis	8015M/D		1	17477	MI	EET ALB	12/11/24 11:16
Total/NA	Prep	300_Prep			17419	JT	EET ALB	12/10/24 13:25
Total/NA	Analysis	300.0		20	17383	RC	EET ALB	12/10/24 22:14

Client Sample ID: TB-IW17B
Lab Sample ID: 885-16600-5
Date Collected: 12/09/24 10:42
Matrix: Solid
Date Received: 12/10/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8015M/D		1	17375	AT	EET ALB	12/10/24 14:56
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8021B		1	17376	AT	EET ALB	12/10/24 14:56
Total/NA	Prep	SHAKE			17439	MI	EET ALB	12/10/24 16:15
Total/NA	Analysis	8015M/D		1	17477	MI	EET ALB	12/11/24 11:28
Total/NA	Prep	300_Prep			17419	JT	EET ALB	12/10/24 13:25
Total/NA	Analysis	300.0		20	17383	RC	EET ALB	12/10/24 22:43

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-16600-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

Released to Imaging: 9/3/2025 1:20:26 PM

Chain-of-Custody Record

Client: EOG / Ranger ENV

Mailing Address: ON FILE

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 24 hr

Project Name: Ray SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No mojo

# of Coolers: 1

Cooler Temp(including CF): 5.9 +0=5.9 (°C)

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Tel. 505-345-3975 Fax 505-345-4107

885-16600 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/9/24	1030	Soil	TB-W29 B	1x 40z Jar	ICE		X	X					X			
	1034		TB-IW6 B													
	1036		TB-IW8 B													
	1040		TB-IW15 B													
	1042		TB-IW17 B													

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/9/24	1333				12/9/24	1333
12/9/24	1900			courier	12/10/24	9:00

Remarks:
Bill TO EOG MIDLAND
C. Settle

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

12/13/2024

Received by OCD: 6/19/2025 8:41:42 AM

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-16600-1

Login Number: 16600 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 12/12/2024 5:53:37 PM

JOB DESCRIPTION

Roy SWD #3

JOB NUMBER

885-16613-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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12/12/2024 5:53:37 PM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Laboratory Job ID: 885-16613-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-16613-1
Project/Site: Roy SWD #3

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD #3

Job ID: 885-16613-1

Job ID: 885-16613-1 Eurofins Albuquerque

Job Narrative
885-16613-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/10/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16613-1

Client Sample ID: TB-W19B

Lab Sample ID: 885-16613-1

Date Collected: 12/09/24 09:40
Matrix: Solid
Date Received: 12/10/24 08:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		12/10/24 09:50	12/10/24 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*12/10/24 09:50*	*12/10/24 15:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		12/10/24 09:50	12/10/24 15:17	1
Ethylbenzene	ND		0.049		mg/Kg		12/10/24 09:50	12/10/24 15:17	1
Toluene	ND		0.049		mg/Kg		12/10/24 09:50	12/10/24 15:17	1
Xylenes, Total	ND		0.099		mg/Kg		12/10/24 09:50	12/10/24 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*48 - 145*	*12/10/24 09:50*	*12/10/24 15:17*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**13**		9.7		mg/Kg		12/10/24 16:15	12/11/24 09:40	1
Motor Oil Range Organics [C28-C40]	**60**		49		mg/Kg		12/10/24 16:15	12/11/24 09:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*12/10/24 16:15*	*12/11/24 09:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**570**		60		mg/Kg		12/10/24 13:25	12/10/24 22:53	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16613-1

Client Sample ID: TB-W28B

Date Collected: 12/09/24 09:46
Date Received: 12/10/24 08:00

Lab Sample ID: 885-16613-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		3.8		mg/Kg		12/10/24 09:50	12/10/24 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*12/10/24 09:50*	*12/10/24 15:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		12/10/24 09:50	12/10/24 15:39	1
Ethylbenzene	ND		0.038		mg/Kg		12/10/24 09:50	12/10/24 15:39	1
Toluene	ND		0.038		mg/Kg		12/10/24 09:50	12/10/24 15:39	1
Xylenes, Total	ND		0.076		mg/Kg		12/10/24 09:50	12/10/24 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*12/10/24 09:50*	*12/10/24 15:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**12**		10		mg/Kg		12/10/24 16:15	12/11/24 09:52	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/10/24 16:15	12/11/24 09:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*12/10/24 16:15*	*12/11/24 09:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**500**		60		mg/Kg		12/10/24 13:25	12/10/24 23:03	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16613-1

Client Sample ID: TB-W34B

Lab Sample ID: 885-16613-3

Date Collected: 12/09/24 09:48
Matrix: Solid
Date Received: 12/10/24 08:00

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.5		mg/Kg		12/10/24 09:50	12/10/24 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*12/10/24 09:50*	*12/10/24 16:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg		12/10/24 09:50	12/10/24 16:01	1
Ethylbenzene	ND		0.045		mg/Kg		12/10/24 09:50	12/10/24 16:01	1
Toluene	ND		0.045		mg/Kg		12/10/24 09:50	12/10/24 16:01	1
Xylenes, Total	ND		0.090		mg/Kg		12/10/24 09:50	12/10/24 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*	*12/10/24 09:50*	*12/10/24 16:01*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		12/10/24 16:15	12/11/24 10:04	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/10/24 16:15	12/11/24 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*12/10/24 16:15*	*12/11/24 10:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**320**		60		mg/Kg		12/10/24 13:25	12/10/24 23:33	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16613-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-17375/6
Matrix: Solid
Analysis Batch: 17375

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg			12/10/24 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*		*12/10/24 11:47*	*1*

Lab Sample ID: LCS 885-17391/2-A
Matrix: Solid
Analysis Batch: 17375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17391

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	21.7		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*188*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-17376/6
Matrix: Solid
Analysis Batch: 17376

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg			12/10/24 11:47	1
Ethylbenzene	ND		0.050		mg/Kg			12/10/24 11:47	1
Toluene	ND		0.050		mg/Kg			12/10/24 11:47	1
Xylenes, Total	ND		0.10		mg/Kg			12/10/24 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*		*12/10/24 11:47*	*1*

Lab Sample ID: LCS 885-17391/3-A
Matrix: Solid
Analysis Batch: 17376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17391

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.935		mg/Kg		94	70 - 130		
Benzene			1.00	0.935		mg/Kg		94	70 - 130		
Ethylbenzene			1.00	0.959		mg/Kg		96	70 - 130		
Ethylbenzene			1.00	0.959		mg/Kg		96	70 - 130		
m,p-Xylene			2.00	1.93		mg/Kg		97	70 - 130		
m,p-Xylene			2.00	1.93		mg/Kg		97	70 - 130		
o-Xylene			1.00	0.961		mg/Kg		96	70 - 130		
o-Xylene			1.00	0.961		mg/Kg		96	70 - 130		
Toluene			1.00	0.943		mg/Kg		94	70 - 130		
Toluene			1.00	0.943		mg/Kg		94	70 - 130		
Xylenes, Total			3.00	2.89		mg/Kg		96	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16613-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-17391/3-A
Matrix: Solid
Analysis Batch: 17459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17391

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			3.00	2.89		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*

Lab Sample ID: MB 885-17459/6
Matrix: Solid
Analysis Batch: 17459

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg			12/10/24 11:47	1
Ethylbenzene	ND		0.050		mg/Kg			12/10/24 11:47	1
Toluene	ND		0.050		mg/Kg			12/10/24 11:47	1
Xylenes, Total	ND		0.10		mg/Kg			12/10/24 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*		*12/10/24 11:47*	*1*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-17419/1-A
Matrix: Solid
Analysis Batch: 17383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17419

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		12/10/24 13:25	12/10/24 20:45	1

Lab Sample ID: LCS 885-17419/2-A
Matrix: Solid
Analysis Batch: 17383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17419

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	29.2		mg/Kg		97	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16613-1

GC VOA

Analysis Batch: 17375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16613-1	TB-W19B	Total/NA	Solid	8015M/D	17391
885-16613-2	TB-W28B	Total/NA	Solid	8015M/D	17391
885-16613-3	TB-W34B	Total/NA	Solid	8015M/D	17391
MB 885-17375/6	Method Blank	Total/NA	Solid	8015M/D	
LCS 885-17391/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	17391

Analysis Batch: 17376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16613-1	TB-W19B	Total/NA	Solid	8021B	17391
885-16613-2	TB-W28B	Total/NA	Solid	8021B	17391
885-16613-3	TB-W34B	Total/NA	Solid	8021B	17391
MB 885-17376/6	Method Blank	Total/NA	Solid	8021B	
LCS 885-17391/3-A	Lab Control Sample	Total/NA	Solid	8021B	17391

Prep Batch: 17391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16613-1	TB-W19B	Total/NA	Solid	5035	
885-16613-2	TB-W28B	Total/NA	Solid	5035	
885-16613-3	TB-W34B	Total/NA	Solid	5035	
LCS 885-17391/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-17391/3-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 17459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-17459/6	Method Blank	Total/NA	Solid	8021B	
LCS 885-17391/3-A	Lab Control Sample	Total/NA	Solid	8021B	17391

GC Semi VOA

Prep Batch: 17439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16613-1	TB-W19B	Total/NA	Solid	SHAKE	
885-16613-2	TB-W28B	Total/NA	Solid	SHAKE	
885-16613-3	TB-W34B	Total/NA	Solid	SHAKE	

Analysis Batch: 17477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16613-1	TB-W19B	Total/NA	Solid	8015M/D	17439
885-16613-2	TB-W28B	Total/NA	Solid	8015M/D	17439
885-16613-3	TB-W34B	Total/NA	Solid	8015M/D	17439

HPLC/IC

Analysis Batch: 17383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16613-1	TB-W19B	Total/NA	Solid	300.0	17419
885-16613-2	TB-W28B	Total/NA	Solid	300.0	17419
885-16613-3	TB-W34B	Total/NA	Solid	300.0	17419
MB 885-17419/1-A	Method Blank	Total/NA	Solid	300.0	17419
LCS 885-17419/2-A	Lab Control Sample	Total/NA	Solid	300.0	17419

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16613-1

HPLC/IC

Prep Batch: 17419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16613-1	TB-W19B	Total/NA	Solid	300_Prep	
885-16613-2	TB-W28B	Total/NA	Solid	300_Prep	
885-16613-3	TB-W34B	Total/NA	Solid	300_Prep	
MB 885-17419/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-17419/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-16613-1

Client Sample ID: TB-W19B

Lab Sample ID: 885-16613-1

Date Collected: 12/09/24 09:40
Matrix: Solid
Date Received: 12/10/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8015M/D		1	17375	AT	EET ALB	12/10/24 15:17
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8021B		1	17376	AT	EET ALB	12/10/24 15:17
Total/NA	Prep	SHAKE			17439	MI	EET ALB	12/10/24 16:15
Total/NA	Analysis	8015M/D		1	17477	MI	EET ALB	12/11/24 09:40
Total/NA	Prep	300_Prep			17419	JT	EET ALB	12/10/24 13:25
Total/NA	Analysis	300.0		20	17383	RC	EET ALB	12/10/24 22:53

Client Sample ID: TB-W28B

Lab Sample ID: 885-16613-2

Date Collected: 12/09/24 09:46
Matrix: Solid
Date Received: 12/10/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8015M/D		1	17375	AT	EET ALB	12/10/24 15:39
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8021B		1	17376	AT	EET ALB	12/10/24 15:39
Total/NA	Prep	SHAKE			17439	MI	EET ALB	12/10/24 16:15
Total/NA	Analysis	8015M/D		1	17477	MI	EET ALB	12/11/24 09:52
Total/NA	Prep	300_Prep			17419	JT	EET ALB	12/10/24 13:25
Total/NA	Analysis	300.0		20	17383	RC	EET ALB	12/10/24 23:03

Client Sample ID: TB-W34B

Lab Sample ID: 885-16613-3

Date Collected: 12/09/24 09:48
Matrix: Solid
Date Received: 12/10/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8015M/D		1	17375	AT	EET ALB	12/10/24 16:01
Total/NA	Prep	5035			17391	JP	EET ALB	12/10/24 09:50
Total/NA	Analysis	8021B		1	17376	AT	EET ALB	12/10/24 16:01
Total/NA	Prep	SHAKE			17439	MI	EET ALB	12/10/24 16:15
Total/NA	Analysis	8015M/D		1	17477	MI	EET ALB	12/11/24 10:04
Total/NA	Prep	300_Prep			17419	JT	EET ALB	12/10/24 13:25
Total/NA	Analysis	300.0		20	17383	RC	EET ALB	12/10/24 23:33

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-16613-1
Project/Site: Roy SWD #3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client: EOG / Ranger ENV

Mailing Address: ON FILE

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 24 hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No mgo

# of Coolers: 1

Cooler Temp(including CF): 5.9 + 0 = 5.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABOR
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87
Tel. 505-345-3975 Fax 505-345-4107

885-16613 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/9/24	0940	Soil	TB - W19 B	1x 4oz Jar	ICE		X	X					X			
1	0946	1	TB - W28 B	1	1		1	1					1			
1	0948	1	TB - W34 B	1	1		1	1					1			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/9/24	1333				12/9/24	1333
Date:	Time:	Relinquished by:	Received by:	Via: Courier	Date	Time
12/					12/10/24	8:00

Remarks: Bill to MIDLAND EOG
C. Settle

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-16613-1

Login Number: 16613 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Will Kierdorf
Ranger Environmental Services, Inc
7215 McNeil Drive
PO BOX 201179
Austin, Texas 78729

Generated 1/2/2025 11:13:41 AM

JOB DESCRIPTION

Roy SWD#3

JOB NUMBER

885-17493-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 9/3/2025 1:20:20 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
1/2/2025 11:13:41 AM

Authorized for release by
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Laboratory Job ID: 885-17493-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 885-17493-1
Project/Site: Roy SWD#3

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project: Roy SWD#3

Job ID: 885-17493-1

Job ID: 885-17493-1 Eurofins Albuquerque

Job Narrative
885-17493-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/21/2024 10:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
Method 8021B: Surrogate above acceptable range; no matrix interference suspected. Possible delivery of twice the amount of mix from surrogate well during injection.

(885-17493-A-2-B MS)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-17493-1

Client Sample ID: TB-B23B

Date Collected: 12/19/24 09:50
Date Received: 12/21/24 10:24

Lab Sample ID: 885-17493-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.0		mg/Kg		12/23/24 09:00	12/23/24 11:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*12/23/24 09:00*	*12/23/24 11:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		12/23/24 09:00	12/23/24 11:17	1
Ethylbenzene	ND		0.040		mg/Kg		12/23/24 09:00	12/23/24 11:17	1
Toluene	ND		0.040		mg/Kg		12/23/24 09:00	12/23/24 11:17	1
Xylenes, Total	ND		0.081		mg/Kg		12/23/24 09:00	12/23/24 11:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*12/23/24 09:00*	*12/23/24 11:17*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		12/24/24 11:16	12/27/24 13:15	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		12/24/24 11:16	12/27/24 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*12/24/24 11:16*	*12/27/24 13:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		12/23/24 13:59	12/23/24 19:35	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-17493-1

Client Sample ID: TB-IW6C

Date Collected: 12/19/24 09:54
Date Received: 12/21/24 10:24

Lab Sample ID: 885-17493-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.1		mg/Kg		12/23/24 09:00	12/23/24 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*12/23/24 09:00*	*12/23/24 11:41*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		12/23/24 09:00	12/23/24 11:41	1
Ethylbenzene	ND		0.041		mg/Kg		12/23/24 09:00	12/23/24 11:41	1
Toluene	ND		0.041		mg/Kg		12/23/24 09:00	12/23/24 11:41	1
Xylenes, Total	ND		0.081		mg/Kg		12/23/24 09:00	12/23/24 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*48 - 145*	*12/23/24 09:00*	*12/23/24 11:41*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		12/24/24 11:16	12/27/24 13:26	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		12/24/24 11:16	12/27/24 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*12/24/24 11:16*	*12/27/24 13:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		12/23/24 13:59	12/23/24 19:44	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-17493-1

Client Sample ID: TB-W37

Date Collected: 12/19/24 09:56
Date Received: 12/21/24 10:24

Lab Sample ID: 885-17493-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.4		mg/Kg		12/23/24 09:00	12/23/24 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*12/23/24 09:00*	*12/23/24 12:05*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.027		mg/Kg		12/23/24 09:00	12/23/24 12:05	1
Ethylbenzene	ND		0.054		mg/Kg		12/23/24 09:00	12/23/24 12:05	1
Toluene	ND		0.054		mg/Kg		12/23/24 09:00	12/23/24 12:05	1
Xylenes, Total	ND		0.11		mg/Kg		12/23/24 09:00	12/23/24 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*12/23/24 09:00*	*12/23/24 12:05*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		12/26/24 13:30	12/27/24 13:36	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		12/26/24 13:30	12/27/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*12/26/24 13:30*	*12/27/24 13:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		60		mg/Kg		12/23/24 13:59	12/23/24 20:53	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-17493-1

Client Sample ID: TB-W38

Date Collected: 12/19/24 10:00
Date Received: 12/21/24 10:24

Lab Sample ID: 885-17493-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7		mg/Kg		12/23/24 09:00	12/23/24 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*12/23/24 09:00*	*12/23/24 12:29*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		12/23/24 09:00	12/23/24 12:29	1
Ethylbenzene	ND		0.047		mg/Kg		12/23/24 09:00	12/23/24 12:29	1
Toluene	ND		0.047		mg/Kg		12/23/24 09:00	12/23/24 12:29	1
Xylenes, Total	ND		0.094		mg/Kg		12/23/24 09:00	12/23/24 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*	*12/23/24 09:00*	*12/23/24 12:29*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		12/26/24 13:30	12/27/24 13:47	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		12/26/24 13:30	12/27/24 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*111*		*62 - 134*	*12/26/24 13:30*	*12/27/24 13:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		12/23/24 13:59	12/23/24 21:03	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-17493-1

Client Sample ID: TB-W39

Date Collected: 12/19/24 10:02
Date Received: 12/21/24 10:24

Lab Sample ID: 885-17493-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.1		mg/Kg		12/23/24 09:00	12/23/24 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*35 - 166*	*12/23/24 09:00*	*12/23/24 12:53*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021		mg/Kg		12/23/24 09:00	12/23/24 12:53	1
Ethylbenzene	ND		0.041		mg/Kg		12/23/24 09:00	12/23/24 12:53	1
Toluene	ND		0.041		mg/Kg		12/23/24 09:00	12/23/24 12:53	1
Xylenes, Total	ND		0.083		mg/Kg		12/23/24 09:00	12/23/24 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*	*12/23/24 09:00*	*12/23/24 12:53*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		12/26/24 13:30	12/27/24 13:58	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		12/26/24 13:30	12/27/24 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*114*		*62 - 134*	*12/26/24 13:30*	*12/27/24 13:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		12/23/24 13:59	12/23/24 21:13	20

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-17493-1

Client Sample ID: TB-W40

Lab Sample ID: 885-17493-6

Date Collected: 12/19/24 10:04
Matrix: Solid
Date Received: 12/21/24 10:24

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.4		mg/Kg		12/23/24 09:00	12/23/24 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*12/23/24 09:00*	*12/23/24 13:17*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg		12/23/24 09:00	12/23/24 13:17	1
Ethylbenzene	ND		0.044		mg/Kg		12/23/24 09:00	12/23/24 13:17	1
Toluene	ND		0.044		mg/Kg		12/23/24 09:00	12/23/24 13:17	1
Xylenes, Total	ND		0.088		mg/Kg		12/23/24 09:00	12/23/24 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*	*12/23/24 09:00*	*12/23/24 13:17*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		12/26/24 13:30	12/27/24 14:09	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		12/26/24 13:30	12/27/24 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*12/26/24 13:30*	*12/27/24 14:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		12/23/24 13:59	12/23/24 21:23	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-17493-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-18331/1-A
Matrix: Solid
Analysis Batch: 18326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18331

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		12/23/24 09:00	12/23/24 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*12/23/24 09:00*	*12/23/24 10:53*	*1*

Lab Sample ID: LCS 885-18331/2-A
Matrix: Solid
Analysis Batch: 18326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18331

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	21.7		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*205*		*35 - 166*

Lab Sample ID: 885-17493-1 MS
Matrix: Solid
Analysis Batch: 18326

Client Sample ID: TB-B23B
Prep Type: Total/NA
Prep Batch: 18331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		20.2	19.8		mg/Kg		98	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*219*		*35 - 166*

Lab Sample ID: 885-17493-1 MSD
Matrix: Solid
Analysis Batch: 18326

Client Sample ID: TB-B23B
Prep Type: Total/NA
Prep Batch: 18331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		20.2	19.9		mg/Kg		98	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*222*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-18331/1-A
Matrix: Solid
Analysis Batch: 18327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18331

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		12/23/24 09:00	12/23/24 10:53	1
Ethylbenzene	ND		0.050		mg/Kg		12/23/24 09:00	12/23/24 10:53	1
Toluene	ND		0.050		mg/Kg		12/23/24 09:00	12/23/24 10:53	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-17493-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-18331/1-A
Matrix: Solid
Analysis Batch: 18327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18331

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		12/23/24 09:00	12/23/24 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*12/23/24 09:00*	*12/23/24 10:53*	*1*

Lab Sample ID: LCS 885-18331/3-A
Matrix: Solid
Analysis Batch: 18327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18331

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.992		mg/Kg		99	70 - 130		
Ethylbenzene			1.00	1.08		mg/Kg		108	70 - 130		
m,p-Xylene			2.00	2.12		mg/Kg		106	70 - 130		
o-Xylene			1.00	1.04		mg/Kg		104	70 - 130		
Toluene			1.00	1.07		mg/Kg		107	70 - 130		
Xylenes, Total			3.00	3.16		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*

Lab Sample ID: 885-17493-2 MS
Matrix: Solid
Analysis Batch: 18327

Client Sample ID: TB-IW6C
Prep Type: Total/NA
Prep Batch: 18331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.812	0.800		mg/Kg		98	70 - 130		
Ethylbenzene	ND		0.812	0.864		mg/Kg		106	70 - 130		
m,p-Xylene	ND		1.62	1.71		mg/Kg		106	70 - 130		
o-Xylene	ND		0.812	0.844		mg/Kg		104	70 - 130		
Toluene	ND		0.812	0.838		mg/Kg		103	70 - 130		
Xylenes, Total	ND		2.44	2.56		mg/Kg		105	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*177*	*S1+*	*48 - 145*

Lab Sample ID: 885-17493-2 MSD
Matrix: Solid
Analysis Batch: 18327

Client Sample ID: TB-IW6C
Prep Type: Total/NA
Prep Batch: 18331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.812	0.785		mg/Kg		97	70 - 130	2	20
Ethylbenzene	ND		0.812	0.867		mg/Kg		107	70 - 130	0	20
m,p-Xylene	ND		1.62	1.72		mg/Kg		106	70 - 130	0	20
o-Xylene	ND		0.812	0.841		mg/Kg		104	70 - 130	0	20
Toluene	ND		0.812	0.825		mg/Kg		102	70 - 130	2	20
Xylenes, Total	ND		2.44	2.56		mg/Kg		105	70 - 130	0	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-17493-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-17493-2 MSD
Matrix: Solid
Analysis Batch: 18327

Client Sample ID: TB-IW6C
Prep Type: Total/NA
Prep Batch: 18331

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*116*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-18426/1-A
Matrix: Solid
Analysis Batch: 18502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18426

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		12/24/24 11:16	12/27/24 20:04	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/24/24 11:16	12/27/24 20:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*12/24/24 11:16*	*12/27/24 20:04*	*1*

Lab Sample ID: LCS 885-18426/2-A
Matrix: Solid
Analysis Batch: 18502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18426

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	45.0		mg/Kg		90	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*

Lab Sample ID: MB 885-18473/1-A
Matrix: Solid
Analysis Batch: 18502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18473

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		12/26/24 13:30	12/27/24 16:45	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/26/24 13:30	12/27/24 16:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*12/26/24 13:30*	*12/27/24 16:45*	*1*

Lab Sample ID: LCS 885-18473/2-A
Matrix: Solid
Analysis Batch: 18502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18473

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	45.5		mg/Kg		91	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-17493-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-18349/1-A
Matrix: Solid
Analysis Batch: 18348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18349

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		12/23/24 13:59	12/23/24 19:15	1

Lab Sample ID: LCS 885-18349/2-A
Matrix: Solid
Analysis Batch: 18348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18349

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.2		mg/Kg		94	90 - 110		

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-17493-1

GC VOA

Analysis Batch: 18326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17493-1	TB-B23B	Total/NA	Solid	8015M/D	18331
885-17493-2	TB-IW6C	Total/NA	Solid	8015M/D	18331
885-17493-3	TB-W37	Total/NA	Solid	8015M/D	18331
885-17493-4	TB-W38	Total/NA	Solid	8015M/D	18331
885-17493-5	TB-W39	Total/NA	Solid	8015M/D	18331
885-17493-6	TB-W40	Total/NA	Solid	8015M/D	18331
MB 885-18331/1-A	Method Blank	Total/NA	Solid	8015M/D	18331
LCS 885-18331/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	18331
885-17493-1 MS	TB-B23B	Total/NA	Solid	8015M/D	18331
885-17493-1 MSD	TB-B23B	Total/NA	Solid	8015M/D	18331

Analysis Batch: 18327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17493-1	TB-B23B	Total/NA	Solid	8021B	18331
885-17493-2	TB-IW6C	Total/NA	Solid	8021B	18331
885-17493-3	TB-W37	Total/NA	Solid	8021B	18331
885-17493-4	TB-W38	Total/NA	Solid	8021B	18331
885-17493-5	TB-W39	Total/NA	Solid	8021B	18331
885-17493-6	TB-W40	Total/NA	Solid	8021B	18331
MB 885-18331/1-A	Method Blank	Total/NA	Solid	8021B	18331
LCS 885-18331/3-A	Lab Control Sample	Total/NA	Solid	8021B	18331
885-17493-2 MS	TB-IW6C	Total/NA	Solid	8021B	18331
885-17493-2 MSD	TB-IW6C	Total/NA	Solid	8021B	18331

Prep Batch: 18331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17493-1	TB-B23B	Total/NA	Solid	5035	
885-17493-2	TB-IW6C	Total/NA	Solid	5035	
885-17493-3	TB-W37	Total/NA	Solid	5035	
885-17493-4	TB-W38	Total/NA	Solid	5035	
885-17493-5	TB-W39	Total/NA	Solid	5035	
885-17493-6	TB-W40	Total/NA	Solid	5035	
MB 885-18331/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-18331/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-18331/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-17493-1 MS	TB-B23B	Total/NA	Solid	5035	
885-17493-1 MSD	TB-B23B	Total/NA	Solid	5035	
885-17493-2 MS	TB-IW6C	Total/NA	Solid	5035	
885-17493-2 MSD	TB-IW6C	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 18426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17493-1	TB-B23B	Total/NA	Solid	SHAKE	
885-17493-2	TB-IW6C	Total/NA	Solid	SHAKE	
MB 885-18426/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-18426/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-17493-1
Project/Site: Roy SWD#3

GC Semi VOA

Prep Batch: 18473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17493-3	TB-W37	Total/NA	Solid	SHAKE	
885-17493-4	TB-W38	Total/NA	Solid	SHAKE	
885-17493-5	TB-W39	Total/NA	Solid	SHAKE	
885-17493-6	TB-W40	Total/NA	Solid	SHAKE	
MB 885-18473/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-18473/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 18502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17493-1	TB-B23B	Total/NA	Solid	8015M/D	18426
885-17493-2	TB-IW6C	Total/NA	Solid	8015M/D	18426
885-17493-3	TB-W37	Total/NA	Solid	8015M/D	18473
885-17493-4	TB-W38	Total/NA	Solid	8015M/D	18473
885-17493-5	TB-W39	Total/NA	Solid	8015M/D	18473
885-17493-6	TB-W40	Total/NA	Solid	8015M/D	18473
MB 885-18426/1-A	Method Blank	Total/NA	Solid	8015M/D	18426
MB 885-18473/1-A	Method Blank	Total/NA	Solid	8015M/D	18473
LCS 885-18426/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	18426
LCS 885-18473/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	18473

HPLC/IC

Analysis Batch: 18348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17493-1	TB-B23B	Total/NA	Solid	300.0	18349
885-17493-2	TB-IW6C	Total/NA	Solid	300.0	18349
885-17493-3	TB-W37	Total/NA	Solid	300.0	18349
885-17493-4	TB-W38	Total/NA	Solid	300.0	18349
885-17493-5	TB-W39	Total/NA	Solid	300.0	18349
885-17493-6	TB-W40	Total/NA	Solid	300.0	18349
MB 885-18349/1-A	Method Blank	Total/NA	Solid	300.0	18349
LCS 885-18349/2-A	Lab Control Sample	Total/NA	Solid	300.0	18349

Prep Batch: 18349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17493-1	TB-B23B	Total/NA	Solid	300_Prep	
885-17493-2	TB-IW6C	Total/NA	Solid	300_Prep	
885-17493-3	TB-W37	Total/NA	Solid	300_Prep	
885-17493-4	TB-W38	Total/NA	Solid	300_Prep	
885-17493-5	TB-W39	Total/NA	Solid	300_Prep	
885-17493-6	TB-W40	Total/NA	Solid	300_Prep	
MB 885-18349/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-18349/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-17493-1

Client Sample ID: TB-B23B

Lab Sample ID: 885-17493-1
Matrix: Solid
Date Collected: 12/19/24 09:50
Date Received: 12/21/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			18331	JP	EET ALB	12/23/24 09:00
Total/NA	Analysis	8015M/D		1	18326	JP	EET ALB	12/23/24 11:17
Total/NA	Prep	5035			18331	JP	EET ALB	12/23/24 09:00
Total/NA	Analysis	8021B		1	18327	JP	EET ALB	12/23/24 11:17
Total/NA	Prep	SHAKE			18426	KR	EET ALB	12/24/24 11:16
Total/NA	Analysis	8015M/D		1	18502	EM	EET ALB	12/27/24 13:15
Total/NA	Prep	300_Prep			18349	EH	EET ALB	12/23/24 13:59
Total/NA	Analysis	300.0		20	18348	ES	EET ALB	12/23/24 19:35

Client Sample ID: TB-IW6C

Lab Sample ID: 885-17493-2
Matrix: Solid
Date Collected: 12/19/24 09:54
Date Received: 12/21/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			18331	JP	EET ALB	12/23/24 09:00
Total/NA	Analysis	8015M/D		1	18326	JP	EET ALB	12/23/24 11:41
Total/NA	Prep	5035			18331	JP	EET ALB	12/23/24 09:00
Total/NA	Analysis	8021B		1	18327	JP	EET ALB	12/23/24 11:41
Total/NA	Prep	SHAKE			18426	KR	EET ALB	12/24/24 11:16
Total/NA	Analysis	8015M/D		1	18502	EM	EET ALB	12/27/24 13:26
Total/NA	Prep	300_Prep			18349	EH	EET ALB	12/23/24 13:59
Total/NA	Analysis	300.0		20	18348	ES	EET ALB	12/23/24 19:44

Client Sample ID: TB-W37

Lab Sample ID: 885-17493-3
Matrix: Solid
Date Collected: 12/19/24 09:56
Date Received: 12/21/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			18331	JP	EET ALB	12/23/24 09:00
Total/NA	Analysis	8015M/D		1	18326	JP	EET ALB	12/23/24 12:05
Total/NA	Prep	5035			18331	JP	EET ALB	12/23/24 09:00
Total/NA	Analysis	8021B		1	18327	JP	EET ALB	12/23/24 12:05
Total/NA	Prep	SHAKE			18473	EM	EET ALB	12/26/24 13:30
Total/NA	Analysis	8015M/D		1	18502	EM	EET ALB	12/27/24 13:36
Total/NA	Prep	300_Prep			18349	EH	EET ALB	12/23/24 13:59
Total/NA	Analysis	300.0		20	18348	ES	EET ALB	12/23/24 20:53

Client Sample ID: TB-W38

Lab Sample ID: 885-17493-4
Matrix: Solid
Date Collected: 12/19/24 10:00
Date Received: 12/21/24 10:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			18331	JP	EET ALB	12/23/24 09:00
Total/NA	Analysis	8015M/D		1	18326	JP	EET ALB	12/23/24 12:29

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD#3

Job ID: 885-17493-1

Client Sample ID: TB-W38

Lab Sample ID: 885-17493-4

Date Collected: 12/19/24 10:00
Date Received: 12/21/24 10:24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			18331	JP	EET ALB	12/23/24 09:00
Total/NA	Analysis	8021B		1	18327	JP	EET ALB	12/23/24 12:29
Total/NA	Prep	SHAKE			18473	EM	EET ALB	12/26/24 13:30
Total/NA	Analysis	8015M/D		1	18502	EM	EET ALB	12/27/24 13:47
Total/NA	Prep	300_Prep			18349	EH	EET ALB	12/23/24 13:59
Total/NA	Analysis	300.0		20	18348	ES	EET ALB	12/23/24 21:03

Client Sample ID: TB-W39

Lab Sample ID: 885-17493-5

Date Collected: 12/19/24 10:02
Date Received: 12/21/24 10:24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			18331	JP	EET ALB	12/23/24 09:00
Total/NA	Analysis	8015M/D		1	18326	JP	EET ALB	12/23/24 12:53
Total/NA	Prep	5035			18331	JP	EET ALB	12/23/24 09:00
Total/NA	Analysis	8021B		1	18327	JP	EET ALB	12/23/24 12:53
Total/NA	Prep	SHAKE			18473	EM	EET ALB	12/26/24 13:30
Total/NA	Analysis	8015M/D		1	18502	EM	EET ALB	12/27/24 13:58
Total/NA	Prep	300_Prep			18349	EH	EET ALB	12/23/24 13:59
Total/NA	Analysis	300.0		20	18348	ES	EET ALB	12/23/24 21:13

Client Sample ID: TB-W40

Lab Sample ID: 885-17493-6

Date Collected: 12/19/24 10:04
Date Received: 12/21/24 10:24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			18331	JP	EET ALB	12/23/24 09:00
Total/NA	Analysis	8015M/D		1	18326	JP	EET ALB	12/23/24 13:17
Total/NA	Prep	5035			18331	JP	EET ALB	12/23/24 09:00
Total/NA	Analysis	8021B		1	18327	JP	EET ALB	12/23/24 13:17
Total/NA	Prep	SHAKE			18473	EM	EET ALB	12/26/24 13:30
Total/NA	Analysis	8015M/D		1	18502	EM	EET ALB	12/27/24 14:09
Total/NA	Prep	300_Prep			18349	EH	EET ALB	12/23/24 13:59
Total/NA	Analysis	300.0		20	18348	ES	EET ALB	12/23/24 21:23

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Job ID: 885-17493-1
Project/Site: Roy SWD#3

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

Released to Imaging: 9/3/2025 1:20:26 PM
Received by OCD: 6/19/2025 8:41:42 AM

Chain-of-Custody Record

Client. EOG-Midland / Ranger Env.

Mailing : EOG - 5509 Champions Dr, Midland TX 79706

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time: 24 hr

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: J. Martinez

On Ice: ☑ Yes ☐ No

# of Coolers: 1 Major

Cooler Temp(including CF): 5.0+0.1=5.1°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Tel. 505-345-3975 Fax 505-345-4107

885-17493 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
12/14/24	0950	SOIL	TB-B23B	1x4oz Jar	ICE	-1	X	X	X
	0954		TB-IW6C			-2			
	0956		TB-W37			-3			
	1000		TB-W38			-4			
	1002		TB-W39			-5			
	1004		TB-W40			-6			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/20/24	825				12/20/24	825
12/20/24	1900			courier	12/21/24	11:20

Remarks: Bill to EOG Midland

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Page 2261 of 2289

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc Job Number: 885-17493-1

Login Number: 17493 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Proctor, Nancy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

ATTACHMENT 3 – NMOCD CORRESPONDENCE

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, June 2, 2023 10:34 AM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 182384

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1801936658,
with the following conditions:

- **The Remediation Plan is Conditionally Approved. The variance for the geosynthetic clay liner at 6 feet below ground surface is approved under the circumstance that as much contaminated soil is safely removed as possible. The excavations should be backfilled to 6 feet below surface with clean material, liner installed, and then backfilled to surface with clean material. Since the release is within 300 feet of a significant watercourse, the release will need to meet the strictest closure criteria standards. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. The variance is approved for 400 ft2 floor samples. Collect confirmation sidewall samples, representing no more than 200 ft2. A closure report will need to be completed and uploaded within 90 days.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Date: August 9, 2024 at 9:11:54 AM CDT
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 372173

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1801936658.

The sampling event is expected to take place:

When: 08/13/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.6705933,-104.5177307)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Date: August 9, 2024 at 9:16:53 AM CDT
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 372175

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1834454137.

The sampling event is expected to take place:

When: 08/13/2024 @ 08:00
Where: T-07-19S-25E 0 FNL 0 FEL (32.6705933,-104.5177307)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, September 4, 2024 1:44 PM
To: Todd Wells <Todd_Wells@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 380538

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Todd Wells for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1801936658.

The sampling event is expected to take place:

When: 09/09/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.6705933,-104.5177307)

Additional Information: Sampler Information Chase Settle 575-703-6537

Additional Instructions: Driving Directions Directions to the site can be provided after an email request
Sampler Information Chase Settle 575-703-6537

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, September 4, 2024 1:55 PM
To: Todd Wells <Todd_Wells@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 380553

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Todd Wells for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1834454137.

The sampling event is expected to take place:

When: 09/09/2024 @ 08:00
Where: P-07-19S-25E 0 FNL 0 FEL (32.6705933,-104.5177307)

Additional Information: Sampler Information Chase Settle 575-703-6537

Additional Instructions: Driving Directions Directions to the site can be provided after an email request
Sampler Information Chase Settle 575-703-6537

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, October 1, 2024 9:14 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 388654

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1801936658.

The sampling event is expected to take place:

When: 10/03/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.6705933,-104.5177307)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event. then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, October 1, 2024 9:16 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 388656

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1834454137.

The sampling event is expected to take place:

When: 10/03/2024 @ 08:00
Where: P-07-19S-25E 0 FNL 0 FEL (32.6705933,-104.5177307)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, October 14, 2024 3:46 PM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 392521

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1801936658.

The sampling event is expected to take place:

When: 10/17/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.6705933,-104.5177307)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, October 14, 2024 4:07 PM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 392527

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC).

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1834464137.

The sampling event is expected to take place:

When: 10/17/2024 @ 08:00
Where: P-07-19S-25E 0 FNL 0 FEL (32.6705933,-104.5177307)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, October 29, 2024 2:15 PM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 396816

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1801936658.

The sampling event is expected to take place:

When: 11/01/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.6705933,-104.5177307)

Additional Information: Chase Settle 575-703-6537

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, October 29, 2024 2:19 PM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 396821

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1834454137.

The sampling event is expected to take place:

When: 11/01/2024 @ 08:00
Where: P-07-19S-25E 0 FNL 0 FEL (32.6705933,-104.5177307)

Additional Information: Chase Settle 575-703-6537

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, November 20, 2024 10:14 PM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 405419

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1801936658.

The sampling event is expected to take place:

When: 11/25/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.6705933,-104.5177307)

Additional Information: Will Kierdorf 512-335-1785

Additional Instructions: Directions to the site can be provided after an email request.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, November 20, 2024 10:23 PM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 405421

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1834454137.

The sampling event is expected to take place:

When: 11/25/2024 @ 08:00
Where: P-07-19S-25E 0 FNL 0 FEL (32.6705933,-104.5177307)

Additional Information: Will Kierdorf 512-335-1785

Additional Instructions: Directions to the site can be provided after an email request.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, December 4, 2024 2:18 PM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 408579

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1801936658.

The sampling event is expected to take place:

When: 12/09/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.6705933,-104.5177307)

Additional Information: Will Kierdorf (512)335-1785

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, December 4, 2024 2:20 PM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 408582

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1834454137.

The sampling event is expected to take place:

When: 12/09/2024 @ 08:00
Where: P-07-19S-25E 0 FNL 0 FEL (32.6705933,-104.5177307)

Additional Information: Will Kierdorf (512)335-1785

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, December 17, 2024 10:28 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 412836

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1801936658.

The sampling event is expected to take place:

When: 12/19/2024 @ 08:00
Where: P-07-19S-25E 810 FSL 660 FEL (32.6705933,-104.5177307)

Additional Information: Will Kierdorf (512)335-1785

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, December 17, 2024 10:29 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 412841

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1834454137.

The sampling event is expected to take place:

When: 12/19/2024 @ 08:00
Where: P-07-19S-25E 0 FNL 0 FEL (32.6705933,-104.5177307)

Additional Information: Will Kierdorf (512)335-1785

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 476853

QUESTIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 476853
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2123047534**
Incident Name	**NAPP2123047534 ROY SWD #3 @ 30-015-26562**
Incident Type	**Produced Water Release**
Incident Status	**Reclamation Report Received**
Incident Well	**[30-015-26562] ROY SWD #003**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ROY SWD #3
Date Release Discovered	08/16/2021
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Produced Water | Released: 0 BBL (Unknown Released Amount) | Recovered: 20 BBL | Lost: -20 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The 3 inch buried steel line from the pump to the wellhead developed a hole due to corrosion, releasing produced water onto the production pad. The recovered volume was 20 barrels with an estimated 25 barrels released, however an accurate release volume could not be calculated therefore the release will be remediated as an unknown volume released.

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QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 476853
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more;** **(?) reported amounts release resulting in negative volume.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: James Kennedy Title: Safety and Environmental Doecialist Email: James_kennedy@eogresources.com Date: 01/21/2025

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QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 476853
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 100 and 200 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between ½ and 1 (mi.)
A wetland	Between 100 and 200 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	19000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	550
GRO+DRO (EPA SW-846 Method 8015M)	190
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	08/16/2021
On what date will (or did) the final sampling or liner inspection occur	05/24/2024
On what date will (or was) the remediation complete(d)	05/24/2024
What is the estimated surface area (in square feet) that will be reclaimed	21750
What is the estimated volume (in cubic yards) that will be reclaimed	8500
What is the estimated surface area (in square feet) that will be remediated	21750
What is the estimated volume (in cubic yards) that will be remediated	8500
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 476853
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	No
OR is the **off-site** disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Kennedy Title: Safety and Environmental Doecialist Email: James_kennedy@eogresources.com Date: 01/21/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 476853
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 476853
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**412829**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**12/19/2024**
What was the (estimated) number of samples that were to be gathered	**6**
What was the sampling surface area in square feet	**1200**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	21750
What was the total volume (cubic yards) remediated	8500
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	21750
What was the total volume (in cubic yards) reclaimed	8500
Summarize any additional remediation activities not included by answers (above)	Please see attached Closure report

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: James Kennedy Title: Safety and Environmental Doecialist Email: James_kennedy@eogresources.com Date: 01/21/2025

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QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 476853
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	148508
What was the total volume of replacement material (in cubic yards) for this site	34120
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	04/21/2025
Summarize any additional reclamation activities not included by answers (above)	All reclamation information is included with the attached report.
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Chase Settle Title: Safety & Environmental Rep II Email: chase_settle@eogresources.com Date: 06/19/2025

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QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 476853
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 476853
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your reclamation report for Incident #NAPP2123047534 ROY SWD #3, thank you. The reclamation report is approved.	9/3/2025