



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:

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JANUARY 14, 2025

A blue ink signature of Patrick K. Finn, consisting of a stylized 'P' followed by a horizontal line.

**Patrick K. Finn, P.G. (TX)
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**William Kierdorf, REM
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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. 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 $\leq$ 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 details¹ 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 $\leq 50'$ 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 $\leq 50'$) & 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-supplied 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 $\leq 50'$) 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 $\leq 50'$) 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

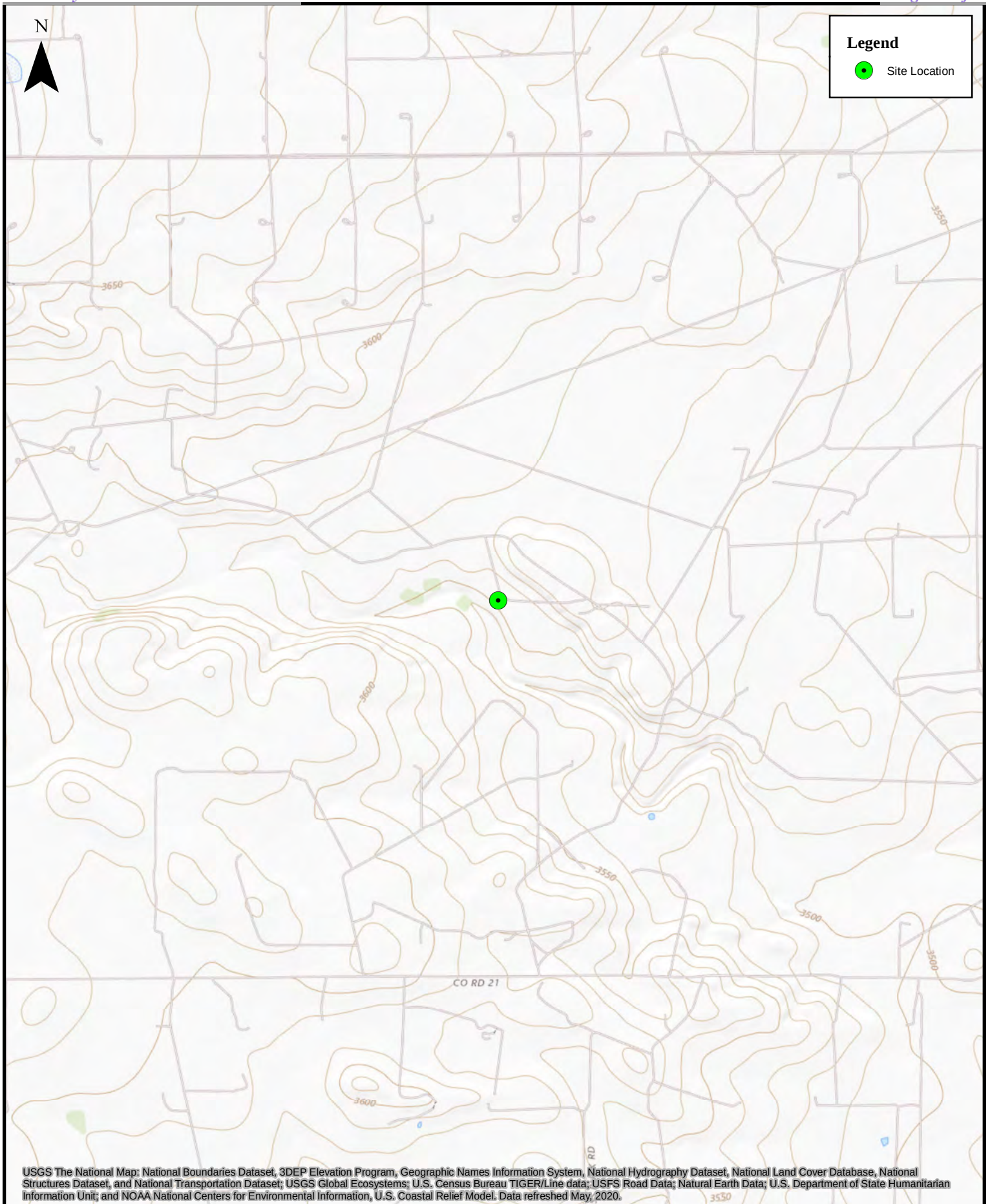
Area Map

Remediation Area Overview Map (nAPP2123047534)

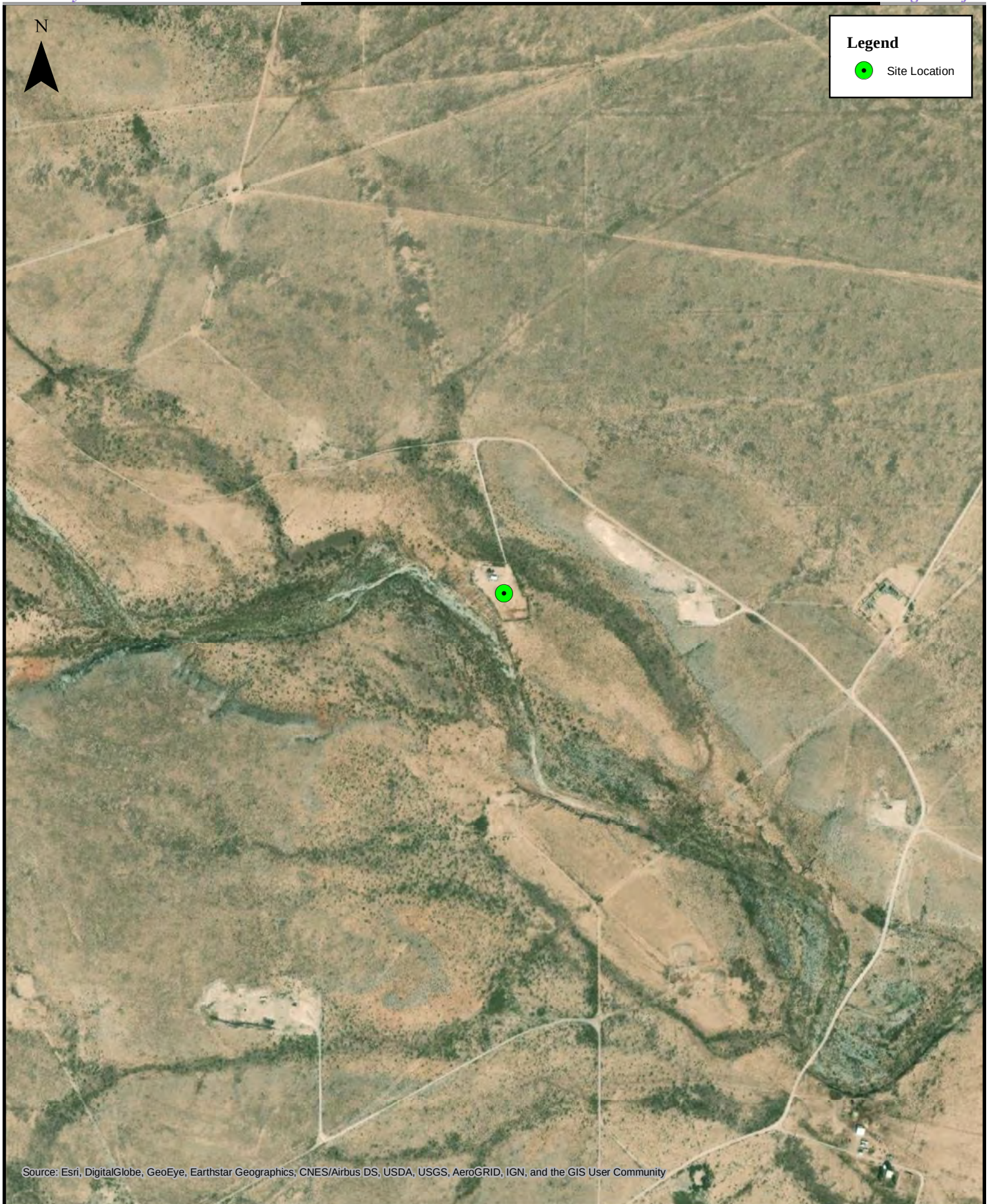
Soil Boring Location Map

Final Excavation Area and Confirmation Sample Location Map
(Wellhead Area)

Final Excavation Area and Confirmation Sample Location Map
(Pad Areas)



 0 600 1,200 2,400 3,600 4,800 Feet 1:24,000	Topographic Map Roy SWD #3 EOG Resources, Inc.



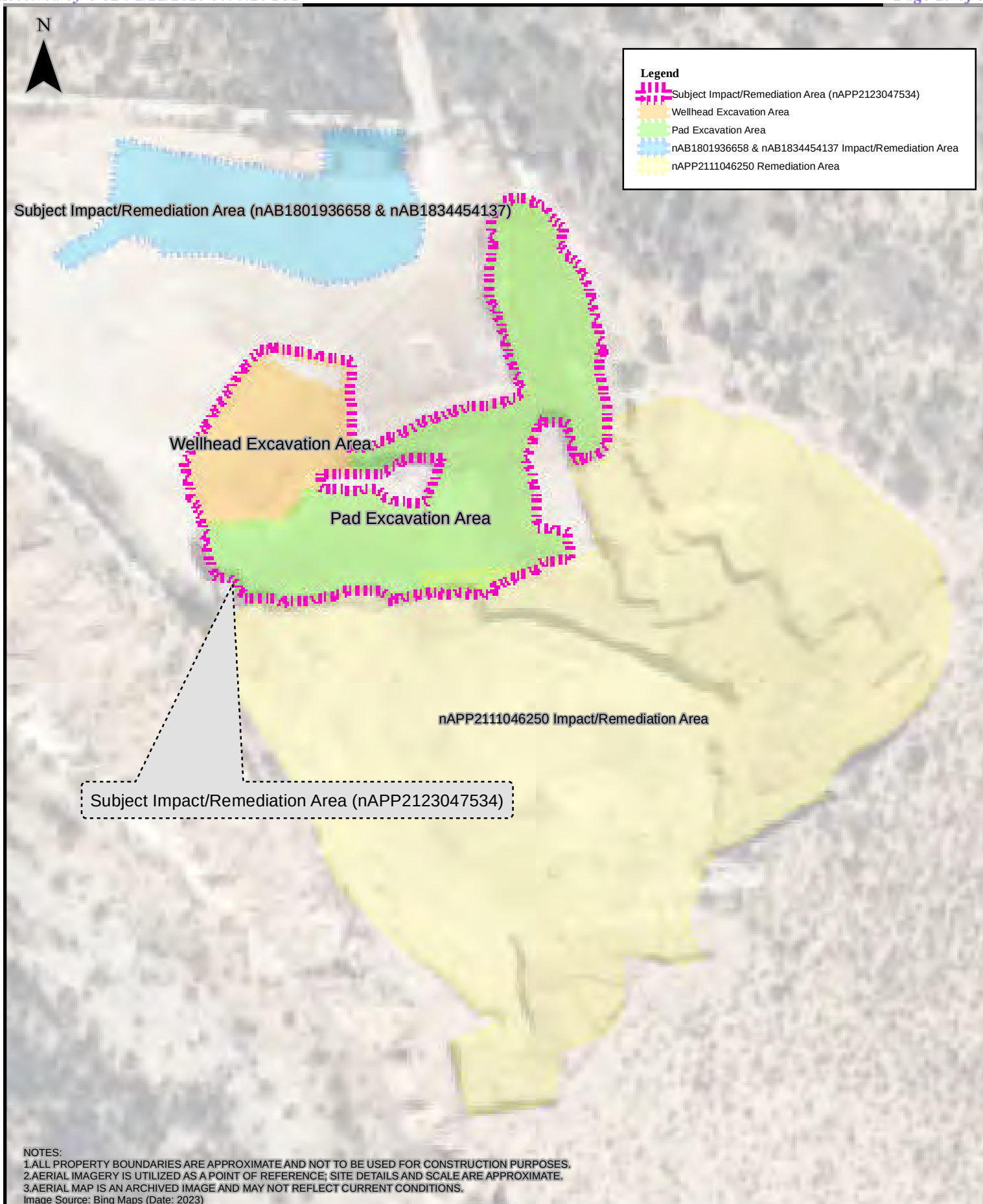
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

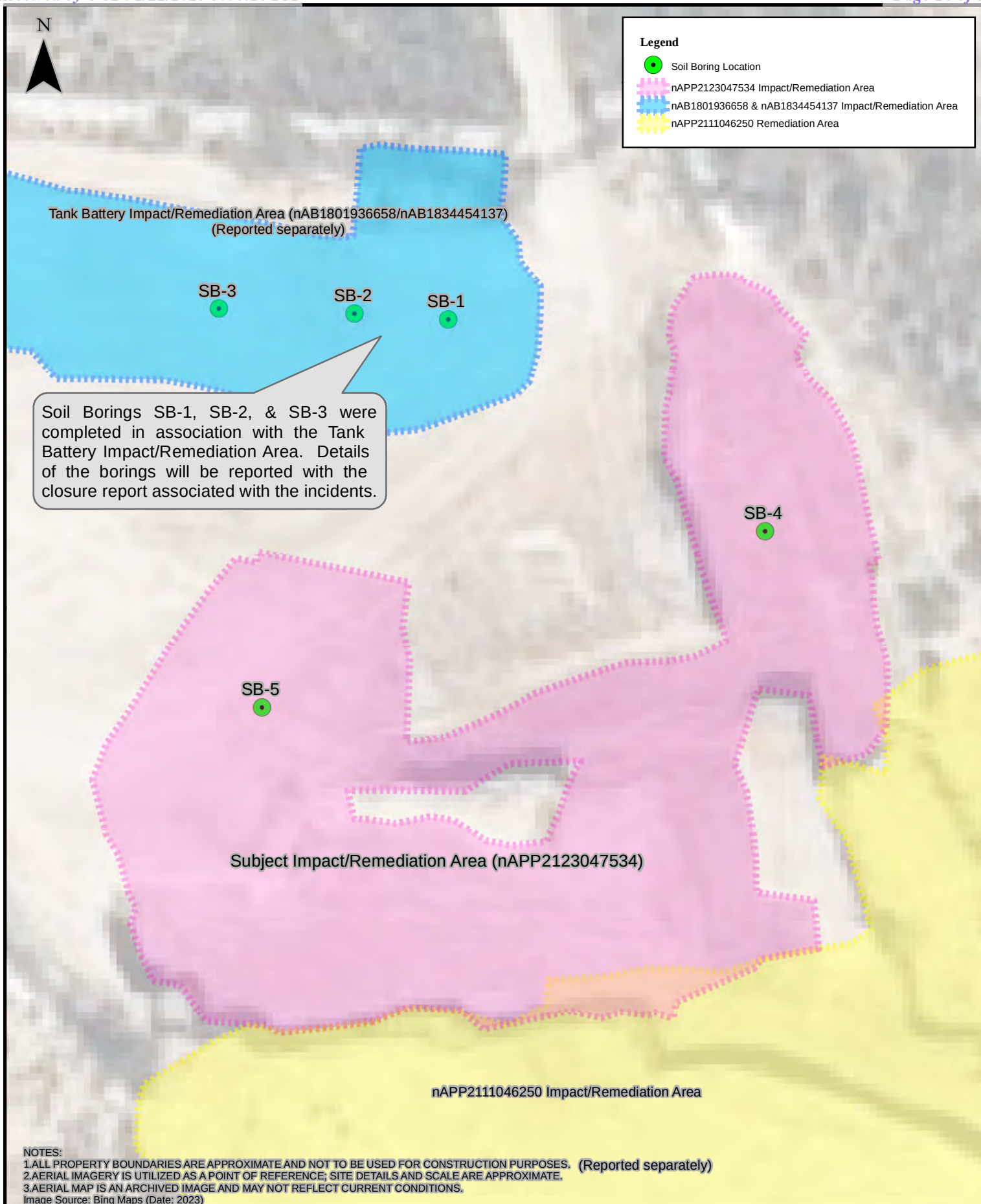


0 250 500 1,000 1,500 2,000 Feet

1:10,000

Area Map
Roy SWD #3
EOG Resources, Inc.

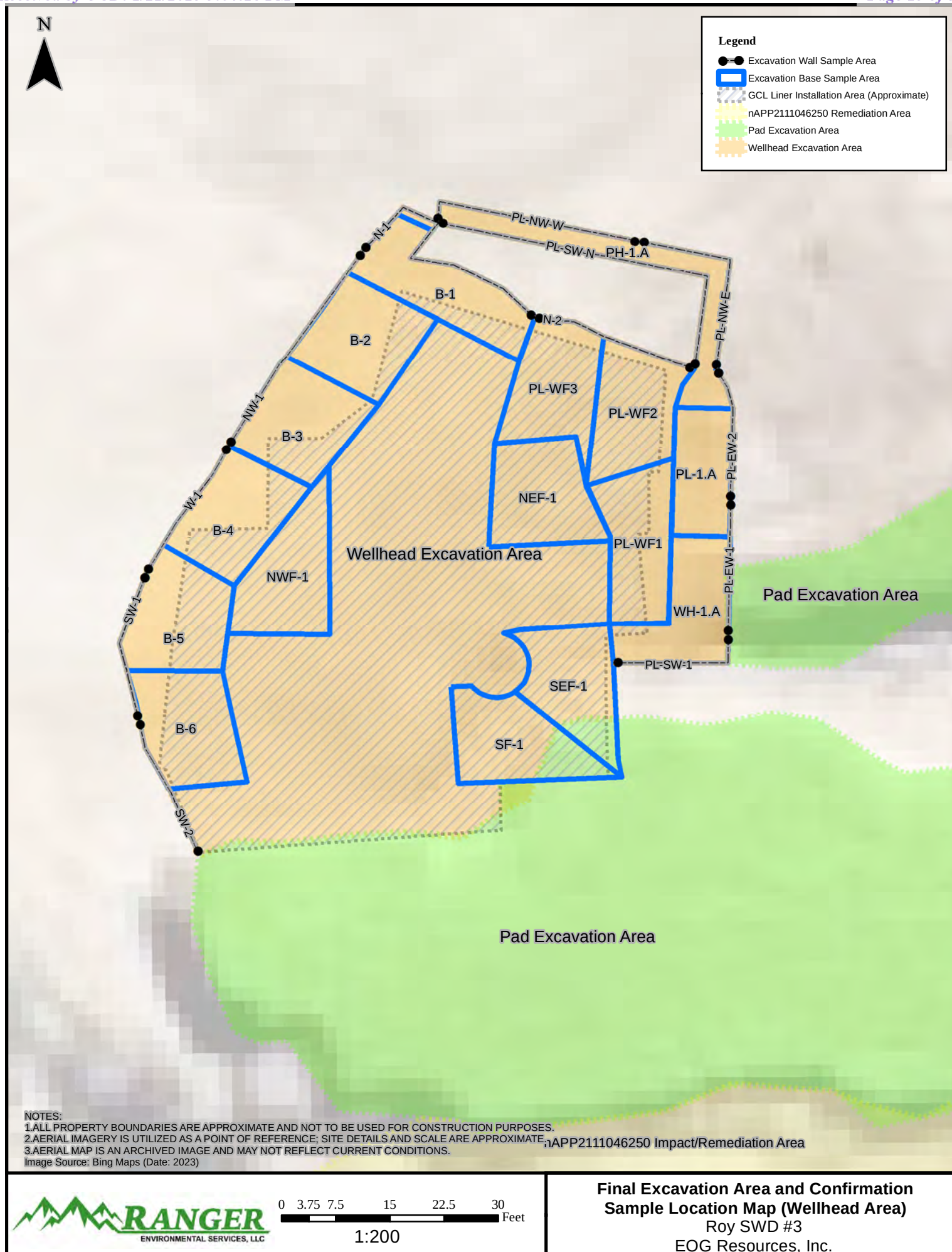


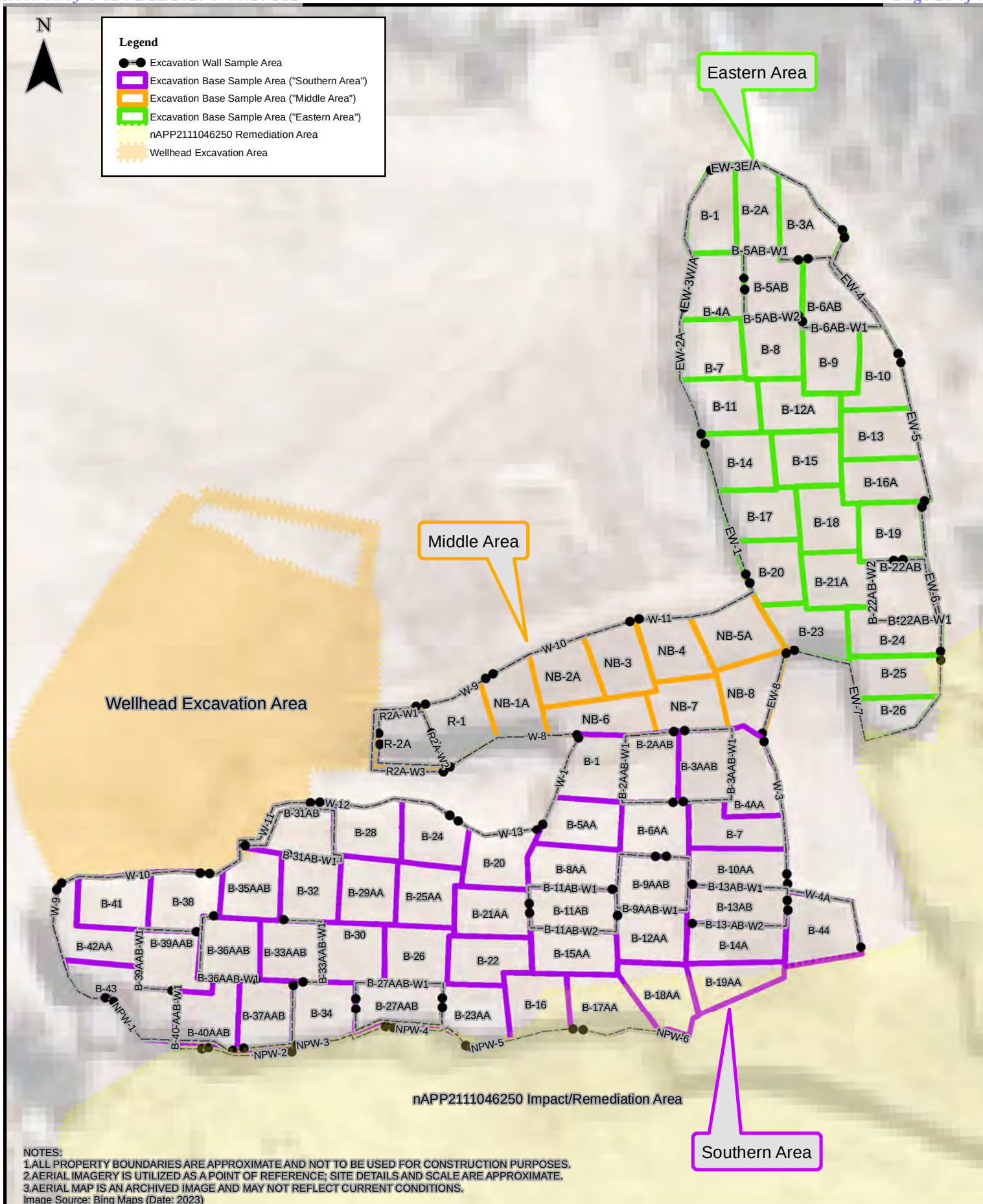


0 5 10 20 30 40
Feet
1:400

Soil Boring Location Map

Roy SWD #3
EOG Resources, Inc.





0 5 10 20 30 40 Feet
1:341

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 <i>Procedures for the Implementation of the Spill Rule</i> (19.15.29 NMAC) dated September 6, 2019.													
4. NA - Not Analyzed													

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	<0.096	<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	11/23/2022	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
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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	11/23/2022	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	11/23/2022	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	11/23/2022	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	<0.10	<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'	<0.048	<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	<14	<48	450
W-2	9/23/2022	0'-6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<49	<15	<49	850
W-3	9/23/2022	0'-6'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<47	<14	<47	480
W-4	9/23/2022	0'-6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<14	<46	<14	<46	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	<14	<46	890
W-6	9/23/2022	0'-6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<13	<45	<13	<45	2,000
W-7	9/23/2022	0'-6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<48	<14	<48	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	<45	<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)			10³				50³					100³	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 <i>Procedures for the Implementation of Digital C-141 and the release rule (19.15.29 NMAC)</i> 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 / -			
			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			
			0 / 600			
			0 / 450			
			0 / 300			
			0 / 300			
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			
			0 / 300			
25			0 / 150		(SM) Gravelly Silt, light brown to olive gray, moderately sorted, soft	
			0 / 150			
			0 / 150			
			0 / 150			
			0 / 150			
30	GB		0 / 150			
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.
P.O. Box 201179,
Austin, Texas 78720
Phone: (512)335-1785
Fax: (512)335-0527

BORING NUMBER SB-5
PAGE 1 OF 2

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

DRILLING CONTRACTOR HCI

GROUND WATER LEVELS:

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°

GEO - Geotech Sample								
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		
	GB		0		Silty Soil Backfill			
		0						
		0						
		0						
5		0						
		0						
		0						
		0						
		0						
10		0						
		0						
		0						
		0						
		0						
		0						
15		0						
		0						
		0						
		0						
		0						
20		0						
		0						
		0						
		0						
		0 / 3300			23.0			
25		0 / 3000+					(GC) Clayey Gravelly Silt, brown, moderately sorted, soft, 0.10"-0.25" diameter gravel, rounded to subangular	 Bentonite
		0 / 3000+						
		0 / 3000+						
		0 / 2400						
		0 / 2700						
	0 / 1800							
30	0 / 2400							
	0 / 2100							
	0 / 1200							
	0 / 900							
35	0 / 900							

(Continued Next Page)



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BORING NUMBER SB-5
PAGE 2 OF 2

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 0 / 1500 0 / 1200 0 / 1050			
	GB		0 / 300		(SM) Clayey Sandy Silt, red to reddish-brown, well sorted, soft, poorly graded, 0.10"-0.25" diameter gravel, subrounded	
40	GB		0 / 300			

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
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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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.	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 15

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.	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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.	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 Quantitative 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-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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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 Quantitative 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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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.	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative 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-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 Quantitative 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

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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 Quantitative 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			

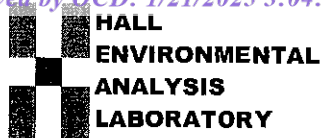
Sample ID: lcs-62189	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 62189			RunNo: 80824						
Prep Date: 8/25/2021	Analysis Date: 8/26/2021			SeqNo: 2852422		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 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 Quantitative 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
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 $>0^{\circ}\text{C}$ 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			



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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.	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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.	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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.	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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.	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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.	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 Quantitative 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-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.	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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.	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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 Quantitative 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 Quantitative 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 Quantitative 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.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative 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-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			

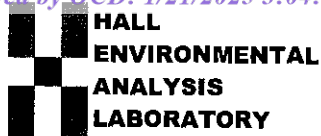
Sample ID: LCS-62766	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 62766				RunNo: 81527					
Prep Date: 9/22/2021	Analysis Date: 9/23/2021				SeqNo: 2880327	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 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 Quantitative 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

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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 $>0^{\circ}\text{C}$ 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.1	Good				



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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.	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 7

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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
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

Completed By: Sean Livingston

9/22/2021 8:01:14 AM

Reviewed By: *EO*

9.22.21

*Chad**Sean Livingston*

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 $>0^{\circ}\text{C}$ 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				



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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

Page 1 of 7

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

Page 2 of 7

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2204063

11-Apr-22

Client: EOG
Project: Roy SWD3

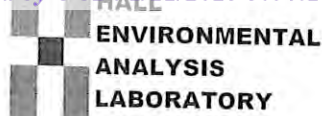
Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: C86939			RunNo: 86939						
Prep Date:	Analysis Date: 4/2/2022			SeqNo: 3071804		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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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: *TC 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 $>0^{\circ}\text{C}$ 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: *TC 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good	Yes			
2	3.3	Good	Yes			

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

Date	Time	Matrix	Sample Name
3/31/22	1524	Sol	PL-WF1
3/31/22	0947	L	PL-WF2
4/1/22	0949	L	PL-WF3

Sampler: W. Kennedy

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 47 - 8 = 4.7

Container Type and #

Preservative Type

HEAL No.

2204063

001

002

003

Date: 4/1/22

Time: 800

Relinquished by: W. Kennedy

Date: 4/1/22

Time: 1900

Relinquished by: W. Kennedy

Received by:

Via:

Date

Time

4/1/22

800

Received by:

Via:

Date

Time

4/1/22

1900

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Via:

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Received by:



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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

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

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

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

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

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

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:

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

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:

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

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



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: JN 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 $>0^{\circ}\text{C}$ 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.7	Good				



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

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

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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

Juan Rojas

Completed By: Juan Rojas

5/20/2022 7:36:50 AM

*Juan Rojas*Reviewed By: *sc 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 $>0^{\circ}\text{C}$ 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 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

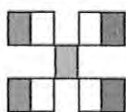
Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good				



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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			
Date	Time	Matrix	Sample Name
5/19/22	0837	Soil	SB1-23
	0935		SB1-38
	0936		SB1-39
	0937		SB1-40
	1049		SB2-29
	1157		SB2-47
	1158		SB2-48
	1159		SB2-49
	1200		SB2-50
	1304		SB3-4
	1314		SB3-14
	1331		SB3-29
Relinquished by:		W. Kennedy	
Date:	Time:		
5/19/22	1215		
Relinquished by:		Will	
Date:	Time:		
5/19/22	1900		

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	
Container Type and #	Preservative Type
1 4oz Jar Ice	
	HEAL No.
	7205923
	-001
	-002
	-003
	-004
	-005
	-006
	-007
	-008
	-009
	-010
	-011
	-012
Received by:	Via:
Will	5/19/22 1215
Received by:	Via:
Pat	5/20/22 7:08

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.

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env

Mailing Address: EOG-1055 4th St. Artesia, NM, 88210 / Ranger: PO Box 201179, Austin Phone #: 521-335-1785 Tx. 78720

email or Fax#: W:11 @ranger-env.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. Kennedy

Sampler: W. Kennedy

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 1-6-0-1-1-5 (°C)

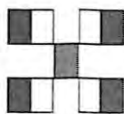
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
5/14/22	1332	Soil	SB3-30	1402 Jar	Ice	2205923
5/14/22	0740		SB4-10			-013
	0745		SB4-15			-014
	0756		SB4-20			-015
	0800		SB4-30			-016
	0846		SB5-26			-017
	0920		SB5-38			-018
	0921		SB5-39			-019
	0922		SB5-40			-020
						-021

Date: 5/14/22 Time: 1215 Relinquished by: W. Kennedy

Date: 5/14/22 Time: 1900 Relinquished by: W. Kennedy

Received by: W. Kennedy Date: 5/14/22 Time: 1215

Received by: Ref 100105 Date: 5/14/22 Time: 7:05



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

TPH:8015D(GRO / DRO / MRO)	X
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)	X
Chloride (EPA 300)	

Remarks: B:11 to EOG-Artesia



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

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

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

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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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative 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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative 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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2209E05

13-Oct-22

Client: EOG
Project: Roy SWD 3

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



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: KPA 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 $>0^{\circ}\text{C}$ 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 9/27/22

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good				

Chain-of-Custody Record				Turn-Around Time: <u>600 S DAY TAT</u>		
Client: EOG-Artesia / Ranger Env.				☒ Standard ☒ Rush		
				Project Name: <u>Ray SWD #3</u>		
				Project #: <u>5375</u>		
				Project Manager: <u>W. Kierdorf</u>		
				Sampler: <u>J. Martinez</u> ☒ Yes ☐ No		
				# of Coolers: <u>1</u>		
				Cooler Temp (including Off): <u>5.3 - 0083.0</u>		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
<u>9-23-22</u>	<u>1400</u>	<u>Soil</u>	<u>B-1</u>	<u>1x4oz Jar</u>	<u>ICE</u>	<u>2204 E05</u>
	<u>1402</u>		<u>B-2</u>			<u>001</u>
	<u>1404</u>		<u>B-3</u>			<u>003</u>
	<u>1406</u>		<u>B-4</u>			<u>004</u>
	<u>1408</u>		<u>B-5</u>			<u>005</u>
	<u>1410</u>		<u>B-6</u>			<u>006</u>
	<u>1412</u>		<u>B-7</u>			<u>007</u>
	<u>1414</u>		<u>B-8</u>			<u>008</u>
	<u>1416</u>		<u>B-9</u>			<u>009</u>
	<u>1418</u>		<u>B-10</u>			<u>010</u>
	<u>1420</u>		<u>B-11</u>			<u>011</u>
	<u>1422</u>		<u>B-12</u>			<u>012</u>
				Received by: <u>Quinn</u> Date: <u>9/27/22</u> Received by: <u>Quinn</u> Date: <u>9/27/22</u>		
				Relinquished by: <u>J. Martinez</u> Date: <u>9/27/22</u> Relinquished by: <u>Quinn</u> Date: <u>9/27/22</u>		

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 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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

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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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

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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 $>0^{\circ}\text{C}$ 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 10-05-22

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

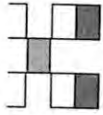
Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good	Not Present			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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 OFI): 5.2 - 0.5. 2.0C

HEAL No. 2210142

Preservative Type ICE

Container Type and # 1x4oz Jar

Sample Name

W-8

W-9

W-10

W-11

W-12

W-13

Matrix

Soil

Soil

Soil

Soil

Soil

Soil

Date

10-3-22

10-4-22

10-4-22

10-4-22

10-4-22

10-4-22

Relinquished by: F. Martinez

Time: 10:48

Relinquished by: V. Kennedy

Time: 11:20

Received by: W. Kennedy

Date: 10/4/22

Time: 10:48

Received by: W. Kennedy

Date: 10/4/22

Time: 11:20

Remarks: Bill to EOG Artesia



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative 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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative 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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative 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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

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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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative 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-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 Quantitative 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: ics-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: ics-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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative 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: ics-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			

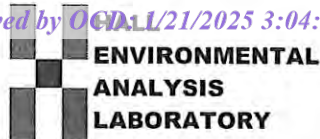
Sample ID: mb-70706	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 70706			RunNo: 91709						
Prep Date: 10/10/2022	Analysis Date: 10/11/2022			SeqNo: 3286545		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	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: ics-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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

Juan Rojas

Completed By: Sean Livingston

10/6/2022 8:04:32 AM

Sean Livingston

Reviewed By:

m10/6/22

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 $>0^{\circ}\text{C}$ 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

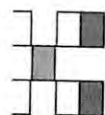
Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good				



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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): 5.4 to 5.5

Container Type and #

Preservative Type

HEAL No.

Date Time Matrix Sample Name

10-4-20 1302 B-32 Soil

1304 B-33

1306 B-34

1308 B-35

1320 B-36

1322 B-37

1324 B-838

1326 B-39

1328 B-40

1330 B-41

1332 B-42

1334 B-43

Date Time

10-5-20 0812 J. Martinez

Date Time

10/5/20 1900 J. Martinez

Received by: Via: Date Time

10/5/20 818

Received by: Via: Date Time

10/6/20 715

Remarks: Bill to EOG Artesia



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 9

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 2 of 9

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 3 of 9

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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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

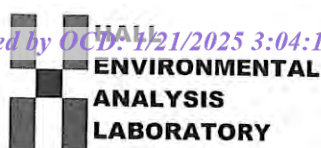
Client: EOG
Project: ROY SWD 3

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



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: KPH 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 $>0^{\circ}\text{C}$ 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: KPH 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 $^{\circ}\text{C}$	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			



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2210783

Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

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 Quantitative 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.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative 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 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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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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 Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

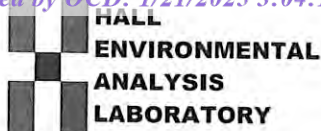
E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 8



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: *Jan 10/17/22**Chad**Chad*

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 $>0^{\circ}\text{C}$ 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? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? ☐Checked by *CM 10/16/22**15
CM
10/16/22*

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			



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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 Quantitative 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.	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 Quantitative 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-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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative 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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative 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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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative 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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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative 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 Quantitative 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 Quantitative 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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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 Quantitative 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 Quantitative 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
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:

jn 10/18/22

Juan Rojas

Sean Livingston

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 $>0^{\circ}\text{C}$ 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: KPC 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good				

EOG S DAY TAF



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

2 of 3

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Client: EOG-Artesia / Ranger Env.		☒ Standard ☒ Rush	
Project Name: Roy SWD #3		Project #: 5375	
Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210		Project Manager: W. Kierdorf	
Ranger: PO Box 201179, Austin TX 78720		Sampler: J. Martinez	
Phone #: 521-335-1785		On Ice: ☒ Yes ☐ No	
Email or Fax#: Will@RangerEnv.com		# of Coolers: 1	
QA/QC Package: ☐ Level 4 (Full Validation)		Cooler Temp (including CP): 091001-10	
☒ Standard ☐ Level 4 (Full Validation)		Container Type and #	
Accreditation: ☐ Az Compliance		Preservative Type	
☒ NELAC ☐ Other		HEAL No.	
☒ EDD (Type) Excel			

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
10-14-22	1402	Seal	B-13	1 x 4oz Jar	ICE	013
	1404		B-14			014
	1406		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: 10-14-22	Time: 1024	Relinquished by: J. Martinez	Received by: J. Martinez	Via: 10/14/22	Date: 10/14/22	Time: 1024
Date: 10-17-22	Time: 1900	Relinquished by: J. Martinez	Received by: J. Martinez	Via: 10/17/22	Date: 10/17/22	Time: 1930

Remarks: Bill to EOG Artesia



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2210D60

Date Reported: 11/4/2022

Hall Environmental Analysis Laboratory, Inc.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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.	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 Quantitative 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-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 Quantitative 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 Quantitative 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: ics-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.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative 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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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.	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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		



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 10/28/2022 10:44:55 AM

Reviewed By: *CME* 10/28/22 *CME 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? Yes ☒ No ☐
(Note discrepancies on chain of custody)
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? Yes ☒ No ☐
(If no, notify customer for authorization.)

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			

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**

Accreditation: ☐ Az Compliance

☒ NELAC ☐ Other

■ EDD (Type) Excel

Date	Time	Matrix	Sample Name
10-25-22	1340	Soil	NB-8

Date	Time	Matrix	Sample Name

Matr.

832

10-25-22 1340

Turn-Around Time: $60\% < \text{D.M.} < 80\% \text{ YEAR}$

☒ 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): $0.647 = 0.8$

Container

Preservative

HEAL No.

1x402 Jar

ICE

013

Received by:	Via:	Date:	Time:

Date _____ Time _____

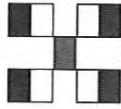
Received by:	Via:	Date	Time

Date Time

Remarks: Bill to EOG Artesia

If necessary, samples submitted to Half 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: 1/24/2025 8:07:08 AM



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative 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 Quantitative 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 Quantitative 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.	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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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

Juan Rojas

Completed By: Tracy Casarrubias

11/3/2022 8:30:29 AM

Reviewed By:

KRC

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 $>0^{\circ}\text{C}$ 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: *Ju 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

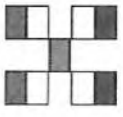
Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good	Yes			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

[illegible]

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

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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2211741

Date Reported: 11/28/2022

Hall Environmental Analysis Laboratory, Inc.

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 Quantitative 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 Quantitative 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 Quantitative 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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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 Quantitative 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 Quantitative 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.	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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		



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

KJR
Cason

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? Yes ☒ No ☐
(Note discrepancies on chain of custody)
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? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: CMC 11/12/22

Special Handling (if applicable)

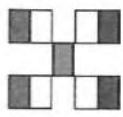
15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

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			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

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

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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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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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.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative 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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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.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative 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
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: *Jn 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 $>0^{\circ}\text{C}$ 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 11/17/22*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes			



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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
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: *KRM* 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 $>0^{\circ}\text{C}$ 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: Jm 11/18/22

Special Handling (if applicable)

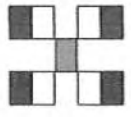
15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

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			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
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

Project Name: BOV SUND #3
Project #: 5375
Project Manager: W. Kierdorf
Sampler: J.M. Martinez
On Ice: ☒ Yes ☐ No
of Coolers: 1
Cooler Temp (including CP): 1.8-6.2-1.6

QA/QC Package:		Level 4 (Full Validation)	
Standard		☐	
Accreditation: ☐ Az Compliance			
NELAC ☐ Other			
EDD (Type) Excel			
Date	Time	Matrix	Sample Name
11/17/22	1426	S-11	B-12-A
	1300		B-11-A
	1430		B-31-A
	1520		NB-1-A

Received by: J.M. Martinez Date: 11/22/22 Time: 9:55
Relinquished by: J.M. Martinez Date: 11/22/22 Time: 7:15

Analysis Request		Remarks: Bill to EOG Artesia	
BTX (8021)	Y Y X		
TPH-8015D (GRO / DRO / MRO)			
Chloride (EPA 300)			

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

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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative 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 7 of 10

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 Quantitative 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 8 of 10

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 Quantitative 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.	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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		



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

Completed By: Kasandra Jimena Garcia 11/19/2022 8:19:11 AM

Reviewed By: *initials/22*

KJ

KJ

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? Yes ☒ No ☐
(Note discrepancies on chain of custody)
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? Yes ☒ No ☐
(If no, notify customer for authorization.)

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

Adjusted? _____

Checked by: *KJC 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			



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative 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 Quantitative 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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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.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative 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 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 Quantitative 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
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: *SL* 11-23-22

Chad

Sean Livingston

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 $>0^{\circ}\text{C}$ 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: *SL 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good				
2	1.0	Good				



THALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

1901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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

email or Fax#: Will@RangerEnv.com

QA/QC Package:

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

Accreditation: ☐ **Az Compliance**

■ **NELAC** ☐ **Other** _____

■ **EDD (Type)** Excel _____

Date	Time	Matrix	Sample Name	Cooler Temp (including CF): 1.0-0-1.0		HEAL No.
				Container Type and #	Preservative Type	
11-21-22	1000	Soil	B-22A	1x402 Jar	ICE	2211D13
	1610		B-2AA			002
	1210		B-8AA			003
	1500		B-5AA			004
	1502		B-2AA			
	1504		B-9AA			005
	1506		B-10AA			006
11-21-22	1012	Soil	B-3AA			007

[illegible]

Date:	Time:	Relinquished by:	Received by:	Via:	Date:	Time:
11-22-22	1153	J. Martinez	RECEIVED		11-22	1153
11-22-22	1700	RECEIVED	Mr. Carr		11-23-22	0730

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

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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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 Quantitative 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
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

Juan Rojas

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 $>0^{\circ}\text{C}$ 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? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			



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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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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 Quantitative 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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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 Quantitative 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: Ics-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 Quantitative 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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		



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: *mc 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 $>0^{\circ}\text{C}$ 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: *mc 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good	Yes			



Environment Testing

1

2

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12

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

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: 885-829-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

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.
α	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: 885-829-1

Job ID: 885-829-1

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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.

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-5AB

Lab Sample ID: 885-829-1

Date Collected: 03/07/24 09:40

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		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

Lab Sample ID: 885-829-2

Date Collected: 03/07/24 09:42

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		03/11/24 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

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

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 - 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

Date Collected: 03/07/24 09:44

Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-3

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 00:04	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

Date Collected: 03/07/24 10:12

Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-4

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 00:28	1

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-2A

Lab Sample ID: 885-829-4

Date Collected: 03/07/24 10:12

Matrix: Solid

Date Received: 03/09/24 08:30

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

Lab Sample ID: 885-829-5

Date Collected: 03/07/24 10:16

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		03/11/24 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

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-2AAB

Lab Sample ID: 885-829-5

Date Collected: 03/07/24 10:16

Matrix: Solid

Date Received: 03/09/24 08:30

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

Lab Sample ID: 885-829-6

Date Collected: 03/07/24 10:20

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		03/11/24 10:44	03/13/24 01:15	1
Surrogate								
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								
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								
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

Lab Sample ID: 885-829-7

Date Collected: 03/07/24 10:24

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		03/11/24 10:44	03/13/24 01:39	1
Surrogate								
4-Bromofluorobenzene (Surr)	98		15 - 244			03/11/24 10:44	03/13/24 01:39	1

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-9AAB

Lab Sample ID: 885-829-7

Date Collected: 03/07/24 10:24

Matrix: Solid

Date Received: 03/09/24 08:30

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

Lab Sample ID: 885-829-8

Date Collected: 03/07/24 10:28

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		03/11/24 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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-11AB

Lab Sample ID: 885-829-8

Date Collected: 03/07/24 10:28

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	ND		60	mg/Kg		03/12/24 13:11	03/12/24 19:11	20

Client Sample ID: B-13AB

Lab Sample ID: 885-829-9

Date Collected: 03/07/24 10:30

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		4.7	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

Lab Sample ID: 885-829-10

Date Collected: 03/07/24 11:20

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		4.8	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

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-27AAB

Lab Sample ID: 885-829-10

Date Collected: 03/07/24 11:20

Matrix: Solid

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 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

Lab Sample ID: 885-829-11

Date Collected: 03/07/24 11:22

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		4.6	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

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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

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-35AAB

Lab Sample ID: 885-829-13

Date Collected: 03/07/24 11:26

Matrix: Solid

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	03/14/24 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

Lab Sample ID: 885-829-14

Date Collected: 03/07/24 11:40

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		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

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-36AAB

Lab Sample ID: 885-829-14

Date Collected: 03/07/24 11:40

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	280		60	mg/Kg		03/12/24 15:22	03/12/24 18:32	20

Client Sample ID: B-37AAB

Lab Sample ID: 885-829-15

Date Collected: 03/07/24 11:42

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		03/11/24 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

Lab Sample ID: 885-829-16

Date Collected: 03/07/24 11:44

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		03/11/24 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

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-39AAB

Lab Sample ID: 885-829-16

Date Collected: 03/07/24 11:44

Matrix: Solid

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	03/14/24 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

Lab Sample ID: 885-829-17

Date Collected: 03/07/24 11:50

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		03/11/24 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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-40AAB

Lab Sample ID: 885-829-17

Date Collected: 03/07/24 11:50

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	ND		60	mg/Kg		03/12/24 15:22	03/12/24 19:58	20

Client Sample ID: B-5AB-W1

Lab Sample ID: 885-829-18

Date Collected: 03/07/24 13:30

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		4.8	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

Lab Sample ID: 885-829-19

Date Collected: 03/07/24 13:32

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		4.8	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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-5AB-W2

Lab Sample ID: 885-829-19

Date Collected: 03/07/24 13:32

Matrix: Solid

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	03/14/24 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

Lab Sample ID: 885-829-20

Date Collected: 03/07/24 13:40

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		03/11/24 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

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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

Date Collected: 03/07/24 13:40

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	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

Date Collected: 03/07/24 13:44

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		4.8	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

Date Collected: 03/07/24 13:46

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		4.8	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

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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

Date Collected: 03/07/24 13:46

Matrix: Solid

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

Date Collected: 03/07/24 13:52

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		03/11/24 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

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Client Sample Results

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

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

Date Collected: 03/07/24 13:54

Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-24

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 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

Date Collected: 03/07/24 14:02

Date Received: 03/09/24 08:30

Lab Sample ID: 885-829-25

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	03/15/24 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

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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

Date Collected: 03/07/24 14:02

Matrix: Solid

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

Date Collected: 03/07/24 14:06

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		03/11/24 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

Eurofins Albuquerque

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

Date Collected: 03/07/24 14:06

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	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

Date Collected: 03/07/24 14:10

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		03/11/24 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

Date Collected: 03/07/24 14:12

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		03/11/24 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

Eurofins Albuquerque

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

Date Collected: 03/07/24 14:12

Matrix: Solid

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

Date Collected: 03/07/24 14:16

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		4.8	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

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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

Date Collected: 03/07/24 14:16

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	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

Date Collected: 03/07/24 14:30

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		4.8	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

Date Collected: 03/07/24 14:32

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		03/11/24 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

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-13AB-W2

Lab Sample ID: 885-829-31

Date Collected: 03/07/24 14:32

Matrix: Solid

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		0.049	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

Lab Sample ID: 885-829-32

Date Collected: 03/07/24 14:34

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		03/11/24 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

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

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

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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

Date Collected: 03/07/24 14:40

Matrix: Solid

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

Date Collected: 03/07/24 14:42

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 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

Eurofins Albuquerque

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

Date Collected: 03/07/24 14:42

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	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

Date Collected: 03/07/24 14:44

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		4.7	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

Date Collected: 03/07/24 14:50

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		4.8	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

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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

Date Collected: 03/07/24 14:50

Matrix: Solid

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

Date Collected: 03/07/24 14:52

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		4.6	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

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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

Date Collected: 03/07/24 14:52

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	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

Date Collected: 03/07/24 14:54

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		4.8	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

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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						

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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				

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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

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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	%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	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			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	MS									
	%Recovery	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	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	%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	%Recovery	MB Qualifier	Limits					
4-Bromofluorobenzene (Surr)	87		39 - 146					
				Prepared	Analyzed	Dil Fac		
				03/12/24 09:51	03/13/24 15:46	1		

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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

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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

	MB	MB								
Surrogate	%Recovery	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	LCS									
%Recovery	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	MS									
%Recovery	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	MSD									
%Recovery	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	MB						
%Recovery	Qualifier	Limits						
Di-n-octyl phthalate (Surr)	96		69 - 147			03/12/24 10:32	03/12/24 15:26	1

Eurofins Albuquerque

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

MB MB			MB MB					
Analyte	Result	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
MB MB			MB MB					
Surrogate	%Recovery	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

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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

	LCS	LCS	
Surrogate	%Recovery	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

	MS	MS	
Surrogate	%Recovery	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

	MSD	MSD	
Surrogate	%Recovery	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

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
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

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Di-n-octyl phthalate (Surr)	89		62 - 134

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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

Table 1: Top Data											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Diesel Range Organics [C10-C28]	ND		47.6	47.7		mg/Kg	-	100	44 - 136	0	29
Surrogate	MSD %Recovery	MSD Qualifier	MSD 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

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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

Eurofins Albuquerque

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

Eurofins Albuquerque

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	

Eurofins Albuquerque

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

Eurofins Albuquerque

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

Eurofins Albuquerque

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	

Eurofins Albuquerque

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

Eurofins Albuquerque

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

Eurofins Albuquerque

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	

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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

Eurofins Albuquerque

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

Eurofins Albuquerque

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-5AB

Lab Sample ID: 885-829-1

Date Collected: 03/07/24 09:40

Matrix: Solid

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			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

Lab Sample ID: 885-829-2

Date Collected: 03/07/24 09:42

Matrix: Solid

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			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

Lab Sample ID: 885-829-3

Date Collected: 03/07/24 09:44

Matrix: Solid

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			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

Lab Sample ID: 885-829-4

Date Collected: 03/07/24 10:12

Matrix: Solid

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			1514	IMR	EET ALB	03/11/24 10:44
Total/NA	Analysis	8015D		1	1654	JP	EET ALB	03/13/24 00:28

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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

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Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-9AAB**Lab Sample ID: 885-829-7****Date Collected: 03/07/24 10:24****Matrix: Solid****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			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**Lab Sample ID: 885-829-8****Date Collected: 03/07/24 10:28****Matrix: Solid****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			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**Lab Sample ID: 885-829-9****Date Collected: 03/07/24 10:30****Matrix: Solid****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			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**Lab Sample ID: 885-829-10****Date Collected: 03/07/24 11:20****Matrix: Solid****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			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

Eurofins Albuquerque

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-27AAB**Lab Sample ID: 885-829-10****Date Collected: 03/07/24 11:20****Matrix: Solid****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			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**Lab Sample ID: 885-829-11****Date Collected: 03/07/24 11:22****Matrix: Solid****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			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**Lab Sample ID: 885-829-12****Date Collected: 03/07/24 11:24****Matrix: Solid****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			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**Lab Sample ID: 885-829-13****Date Collected: 03/07/24 11:26****Matrix: Solid****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 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

Eurofins Albuquerque

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-36AAB

Lab Sample ID: 885-829-14

Date Collected: 03/07/24 11:40

Matrix: Solid

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 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

Lab Sample ID: 885-829-15

Date Collected: 03/07/24 11:42

Matrix: Solid

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 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

Lab Sample ID: 885-829-16

Date Collected: 03/07/24 11:44

Matrix: Solid

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 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

Lab Sample ID: 885-829-17

Date Collected: 03/07/24 11:50

Matrix: Solid

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 21:59

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Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

Client Sample ID: B-40AAB**Lab Sample ID: 885-829-17****Date Collected: 03/07/24 11:50****Matrix: Solid****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	03/14/24 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**Lab Sample ID: 885-829-18****Date Collected: 03/07/24 13:30****Matrix: Solid****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 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**Lab Sample ID: 885-829-19****Date Collected: 03/07/24 13:32****Matrix: Solid****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 23:09
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**Lab Sample ID: 885-829-20****Date Collected: 03/07/24 13:40****Matrix: Solid****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 23:33
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

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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

Date Collected: 03/07/24 13:40

Matrix: Solid

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

Date Collected: 03/07/24 13:44

Matrix: Solid

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

Date Collected: 03/07/24 13:46

Matrix: Solid

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

Date Collected: 03/07/24 13:52

Matrix: Solid

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

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Lab Chronicle

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

Date Collected: 03/07/24 13:52

Matrix: Solid

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			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

Lab Sample ID: 885-829-24

Date Collected: 03/07/24 13:54

Matrix: Solid

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 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

Lab Sample ID: 885-829-25

Date Collected: 03/07/24 14:02

Matrix: Solid

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 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

Lab Sample ID: 885-829-26

Date Collected: 03/07/24 14:06

Matrix: Solid

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 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

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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

Date Collected: 03/07/24 14:10

Matrix: Solid

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

Date Collected: 03/07/24 14:12

Matrix: Solid

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

Date Collected: 03/07/24 14:16

Matrix: Solid

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

Date Collected: 03/07/24 14:30

Matrix: Solid

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

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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

Date Collected: 03/07/24 14:30

Matrix: Solid

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

Date Collected: 03/07/24 14:32

Matrix: Solid

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

Date Collected: 03/07/24 14:34

Matrix: Solid

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

Date Collected: 03/07/24 14:36

Matrix: Solid

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

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Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

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

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

Lab Sample ID: 885-829-34

Date Collected: 03/07/24 14:40

Matrix: Solid

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 00:51
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

Lab Sample ID: 885-829-35

Date Collected: 03/07/24 14:42

Matrix: Solid

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 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

Lab Sample ID: 885-829-36

Date Collected: 03/07/24 14:44

Matrix: Solid

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 03:03
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

Eurofins Albuquerque

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

Date Collected: 03/07/24 14:44

Matrix: Solid

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

Date Collected: 03/07/24 14:50

Matrix: Solid

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

Date Collected: 03/07/24 14:52

Matrix: Solid

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

Date Collected: 03/07/24 14:54

Matrix: Solid

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

Eurofins Albuquerque

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

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Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-829-1

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

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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

PAGE 2 OF 4

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

Date	Time	Matrix	Sample Name
3/7/24	0940	Soil	B-5AB
	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

Date:	Time:	Relinquished by:
3/8/24	805	
Date:	Time:	Relinquished by:
3/8/24	1900	

Turn-Around Time:

☐ Standard
 ☒ Rush 5 DAY TAT

Project Name:

Roy SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler:

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 0.9 + 0.1 = 1.0 °C

Container Type and #

1 x 402 30r

Preservative Type

ICE

LHAI No.



885-829 COC

 BTEX (8021) ☒
 TPH:8015D(GRO / DRO / MRO) ☒
 Chloride (EPA 300) ☒

Remarks: Bill to EOG Artesia

Analysis Request


**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

4901 Hawkins NE - Albuquerque, NM 87109

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

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.

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

Date	Time	Matrix	Sample Name
3/7/24	1402	Soil	B-2AAB-WI
	1406		B-3AAB-WI
	1410		B-9AAB-WI
	1412		B-11AB-WI
	1414		B-11AB-W2
	1430		B-13AB-WI
	1432		B-13AB-W2
	1434		B-31AB-WI
	1436		B-39AAB-WI
	1440		B-40AAB-WI
	1442		B-37AAB-WI
	1444		B-27AAB-WI

Date: 3/8/24	Time: 805	Relinquished by: [Signature]
Date: 3/8/24	Time: 1900	Relinquished by: [Signature]

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.

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): 0.9 +0.1 - 1.0 °C

Container Type and #

Preservative Type

HEAL No.

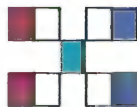
1/4oz Jar

ICE

 BTEX (8021) ☒
 TPH:8015D(GRO / DRO / MRO) ☒
 Chloride (EPA 300) ☒

Analysis Request

Remarks: Bill to EOG Artesia


 HALL ENVIRONMENTAL
ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

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



HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

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 Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

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	



Environment Testing

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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 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

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: 885-3108-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

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.
α	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: 885-3108-1

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.

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-1

Lab Sample ID: 885-3108-1

Date Collected: 04/17/24 09:40

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-2

Lab Sample ID: 885-3108-2

Date Collected: 04/17/24 09:44

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-3

Lab Sample ID: 885-3108-3

Date Collected: 04/17/24 09:46

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-4

Lab Sample ID: 885-3108-4

Date Collected: 04/17/24 09:50

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-5

Lab Sample ID: 885-3108-5

Date Collected: 04/17/24 09:52

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-6

Lab Sample ID: 885-3108-6

Date Collected: 04/17/24 09:56

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-7

Lab Sample ID: 885-3108-7

Date Collected: 04/17/24 10:00

Matrix: Solid

Date Received: 04/19/24 07:30

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

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-8

Lab Sample ID: 885-3108-8

Date Collected: 04/17/24 10:02

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-9

Lab Sample ID: 885-3108-9

Date Collected: 04/17/24 10:06

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

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

Lab Sample ID: 885-3108-11

Date Collected: 04/17/24 12:00

Matrix: Solid

Date Received: 04/19/24 07:30

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

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-2

Lab Sample ID: 885-3108-12

Date Collected: 04/17/24 12:02

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-3

Lab Sample ID: 885-3108-13

Date Collected: 04/17/24 12:04

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-4

Lab Sample ID: 885-3108-14

Date Collected: 04/17/24 12:08

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-5

Lab Sample ID: 885-3108-15

Date Collected: 04/17/24 12:14

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-6

Lab Sample ID: 885-3108-16

Date Collected: 04/17/24 12:16

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-7

Lab Sample ID: 885-3108-17

Date Collected: 04/17/24 12:24

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-8

Lab Sample ID: 885-3108-18

Date Collected: 04/17/24 12:30

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-9

Lab Sample ID: 885-3108-19

Date Collected: 04/17/24 12:32

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

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

Lab Sample ID: 885-3108-21

Date Collected: 04/17/24 12:40

Matrix: Solid

Date Received: 04/19/24 07:30

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

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-12

Lab Sample ID: 885-3108-22

Date Collected: 04/17/24 12:48

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-13

Lab Sample ID: 885-3108-23

Date Collected: 04/17/24 12:54

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-14

Lab Sample ID: 885-3108-24

Date Collected: 04/17/24 13:00

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-15

Lab Sample ID: 885-3108-25

Date Collected: 04/17/24 13:02

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: P-2B-W1

Lab Sample ID: 885-3108-26

Date Collected: 04/17/24 13:10

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

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

Date Collected: 04/17/24 13:12

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: P-2B-W3

Lab Sample ID: 885-3108-28

Date Collected: 04/17/24 13:14

Matrix: Solid

Date Received: 04/19/24 07:30

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

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: R-2A-W3

Lab Sample ID: 885-3108-29

Date Collected: 04/17/24 13:16

Matrix: Solid

Date Received: 04/19/24 07:30

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

Eurofins Albuquerque

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

Eurofins Albuquerque

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

	MS	MS	
Surrogate	%Recovery	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

	MSD	MSD	
Surrogate	%Recovery	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

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
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

	LCS	LCS	
Surrogate	%Recovery	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

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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

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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

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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

	LCS	LCS	
Surrogate	%Recovery	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				

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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	MS 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	MSD 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	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
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	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
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

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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		

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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										Client Sample ID: P-2B-W2		
Matrix: Solid										Prep Type: Total/NA		
Analysis Batch: 3852										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										Client Sample ID: Method Blank		
Matrix: Solid										Prep Type: Total/NA		
Analysis Batch: 3787												
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										Client Sample ID: Lab Control Sample		
Matrix: Solid										Prep Type: Total/NA		
Analysis Batch: 3787												
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										Client Sample ID: Method Blank		
Matrix: Solid										Prep Type: Total/NA		
Analysis Batch: 3852										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										Client Sample ID: Lab Control Sample		
Matrix: Solid										Prep Type: Total/NA		
Analysis Batch: 3852										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

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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

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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	

Eurofins Albuquerque

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	

Eurofins Albuquerque

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	

Eurofins Albuquerque

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

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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

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Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-1

Lab Sample ID: 885-3108-1

Date Collected: 04/17/24 09:40

Matrix: Solid

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			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

Lab Sample ID: 885-3108-2

Date Collected: 04/17/24 09:44

Matrix: Solid

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			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

Lab Sample ID: 885-3108-3

Date Collected: 04/17/24 09:46

Matrix: Solid

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			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

Lab Sample ID: 885-3108-4

Date Collected: 04/17/24 09:50

Matrix: Solid

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			3584	JP	EET ALB	04/19/24 10:55
Total/NA	Analysis	8015D		1	3729	JP	EET ALB	04/22/24 16:23

Eurofins Albuquerque

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-4

Lab Sample ID: 885-3108-4

Date Collected: 04/17/24 09:50

Matrix: Solid

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			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

Lab Sample ID: 885-3108-5

Date Collected: 04/17/24 09:52

Matrix: Solid

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			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

Lab Sample ID: 885-3108-6

Date Collected: 04/17/24 09:56

Matrix: Solid

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			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

Lab Sample ID: 885-3108-7

Date Collected: 04/17/24 10:00

Matrix: Solid

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			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

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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

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Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PWA-10**Lab Sample ID: 885-3108-10****Date Collected: 04/17/24 10:10****Matrix: Solid****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	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**Lab Sample ID: 885-3108-11****Date Collected: 04/17/24 12:00****Matrix: Solid****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	04/23/24 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**Lab Sample ID: 885-3108-12****Date Collected: 04/17/24 12:02****Matrix: Solid****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	04/23/24 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**Lab Sample ID: 885-3108-13****Date Collected: 04/17/24 12:04****Matrix: Solid****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	04/23/24 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

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Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-4**Lab Sample ID: 885-3108-14****Date Collected: 04/17/24 12:08****Matrix: Solid****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	04/23/24 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**Lab Sample ID: 885-3108-15****Date Collected: 04/17/24 12:14****Matrix: Solid****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 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**Lab Sample ID: 885-3108-16****Date Collected: 04/17/24 12:16****Matrix: Solid****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 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**Lab Sample ID: 885-3108-17****Date Collected: 04/17/24 12:24****Matrix: Solid****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 00:49

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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

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Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-10

Lab Sample ID: 885-3108-20

Date Collected: 04/17/24 12:38

Matrix: Solid

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	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

Lab Sample ID: 885-3108-21

Date Collected: 04/17/24 12:40

Matrix: Solid

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 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

Lab Sample ID: 885-3108-22

Date Collected: 04/17/24 12:48

Matrix: Solid

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 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

Lab Sample ID: 885-3108-23

Date Collected: 04/17/24 12:54

Matrix: Solid

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 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

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Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Client Sample ID: PBA-13**Lab Sample ID: 885-3108-23****Date Collected: 04/17/24 12:54****Matrix: Solid****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	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**Lab Sample ID: 885-3108-24****Date Collected: 04/17/24 13:00****Matrix: Solid****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 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**Lab Sample ID: 885-3108-25****Date Collected: 04/17/24 13:02****Matrix: Solid****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 04:12
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**Lab Sample ID: 885-3108-26****Date Collected: 04/17/24 13:10****Matrix: Solid****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 04:34
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

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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

Date Collected: 04/17/24 13:12

Matrix: Solid

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

Date Collected: 04/17/24 13:14

Matrix: Solid

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

Date Collected: 04/17/24 13:16

Matrix: Solid

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

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-3108-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
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

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.
Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210
Range: PO Box 201179, Austin TX 78720
Phone #: 521-335-1785
email for 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 400g
of Coolers: 1
Cooler Temp (including ch): 0.8-0.1 = 0.7°C

Date	Time	Matrix	Sample Name
4/17/24	0940	soil	PWA-1
	0944		PWA-2
	0946		PWA-3
	0950		PWA-4
	0952		PWA-5
	0956		PWA-6
	1000		PWA-7
	1002		PWA-8
	1006		PWA-9
	1010		PWA-10
	1200		PBA-1
	1202		PBA-2
Date:	Time:	Relinquished by:	
4/18/24	1050		
Date:	Time:	Relinquished by:	
4/18/24	1900		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 8
Tel. 505-345-3975 Fax 505-345-411
885-3108 COC

Analysis Request

Container Type and #	Preservative Type	HEAL No.
1 x 4oz Jar	ICE	1
		2
		3
		4
		5
		6
		7
		8
		9
		10
		11
		12

Received by: W. Kierdorf Date: 4/18/24 Time: 1050
Via: Carrier
Received by: W. Kierdorf Date: 4/19/24 Time: 7:30

BTEX (8021)	TPH: 8015D (GRO / DRO / MRO)	Chloride (EPA 300)
X	X	X

Remarks: Bill to EOG Artesia

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.
Mailin; Address: EOG - 105 S 4th St, Artesia NM, 88210
Ranger: PO Box 201179, Austin TX 78720
Phone #: 521-335-1785
email for Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard □ Level 4 (Full Validation)
Accreditation: □ Az Compliance
■ NEELAC □ Other
■ EDO (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): 0.8 - 0.1 = 0.7 °C

Container Type and # 1 x 4oz Jar
Preservative Type ICE
HEAL No. 13
14
15
16
17
18
19
20
21
22
23
24

Received by: [Signature] Date: 4/12/24 Time: 1050
Received by: [Signature] Date: 4/19/24 Time: 7:30

Date	Time	Matrix	Sample Name	BTX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
4/17/24	1204	Soil	PBA-3	X	X	X
1208			PBA-4			
1214			PBA-5			
1216			PBA-6			
1224			PBA-7			
1230			PBA-8			
1232			PBA-9			
1238			PBA-10			
1240			PBA-11			
1248			PBA-12			
1254			PBA-13			
1300			PBA-14			

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: 885-3108-1

Login Number: 3108

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

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	



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

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

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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6/4/2024 3:23:25 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: 885-5134-1

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Definitions/Glossary

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

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
Project: Roy SWD #3

Job ID: 885-5134-1

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.

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Client Sample Results

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

Date Collected: 05/24/24 08:40

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		4.9	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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-2

Lab Sample ID: 885-5134-2

Date Collected: 05/24/24 08:46

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		4.9	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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

Client Sample ID: NPW-3

Lab Sample ID: 885-5134-3

Date Collected: 05/24/24 08:50

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		4.9	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

Eurofins Albuquerque

Client Sample Results

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

Method: SW846 8015M/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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

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

Method: SW846 8015M/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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

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

Method: SW846 8015M/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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

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

Method: SW846 8015M/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

Eurofins Albuquerque

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Roy SWD #3

Job ID: 885-5134-1

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

Method: SW846 8015M/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

Eurofins Albuquerque

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

Eurofins Albuquerque

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				

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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	MS 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	MSD 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	MB 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	LCS 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

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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

	MS	MS	
Surrogate	%Recovery	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
	MSD	MSD									
Surrogate	%Recovery	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

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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

Eurofins Albuquerque

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

Eurofins Albuquerque

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	

Eurofins Albuquerque

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

Date Collected: 05/24/24 08:40

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 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

Date Collected: 05/24/24 08:46

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 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

Date Collected: 05/24/24 08:50

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 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

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	8015M/D		1	5929	JP	EET ALB	05/30/24 19:38

Eurofins Albuquerque

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

Eurofins Albuquerque

Lab Chronicle

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

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
Date Collected: 05/24/24 09:12
Date Received: 05/25/24 07:30

Lab Sample ID: 885-5134-8
Matrix: Solid

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
Project/Site: Roy SWD #3

Job ID: 885-5134-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

4901 Hawkins NE - Albuquerque, NM 87110
Tel. 505-345-3975 Fax 505-345-4107



885-5134 COC

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**

Accreditation: ☐ Az Compliance

☒ **NELAC** ☐ **Other**

■ EDD (Type)	Excel

Date	Time	Matrix	Sample Name
5/24/24	0846	SOIL	NPW-1
	0846		NPW-2
	0850		NPW-3
	0854		NPW-4
	0856		NPW-5
	0902		NPW-6
	0908		NPW-7
	0912		NPW-8

[illegible][illegible]

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	

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





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. Bratcher's 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



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@pvt.n.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



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



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@pvt.n.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



Artesia Division

From: Tina Huerta <Tina_Huerta@eogresources.com>

Sent: Thursday, March 31, 2022 9:48 AM

To: Robert.Hamlet@state.nm.us; Alan & Cheryl <ahowell@pvt.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>

Subject: Roy SWD 3 (nAPP2123047534) Sampling Notification

Good Morning,

Eog Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

SWD 3

19S-25E

Eddy County, NM

nAPP2123047534

Sampling 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



Artesia Division

From: Miriam Morales <Miriam_Morales@eogresources.com>

Sent: Thursday, May 12, 2022 10:00 AM

To: Robert.Hamlet@state.nm.us; ahowell@pvtm.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@pvt.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



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 Ge

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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 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



Artesia Division

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, October 6, 2022 8:18 AM
To: ood.enviro@emnrd.nm.gov; Alan & Cheryl <ahowell@pvtm.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



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 ▼

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 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



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



Artesia Division

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Wednesday, November 2, 2022 4:14 PM
To: Alan & Cheryl <ahowell@pvtm.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@pvt.n.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



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@pvtm.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 8:00 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



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@pvt.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



Artesia Division

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Tuesday, March 5, 2024 10:15 AM

To: James Kennedy <James_Kennedy@egresources.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 860 FEL (32.67059,-104.51773)

Additional Information: Chase Settle

575-703-6637

chase_settle@egresources.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: OCDOOnline@state.nm.us <OCDOOnline@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,-104.61773)

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 (o/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,-104.61773)

Additional Information: Chase Settle 575-703-8537 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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<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 423099

QUESTIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 423099
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2123047534
Incident Name	NAPP2123047534 ROY SWD #3 @ 30-015-26562
Incident Type	Produced Water Release
Incident Status	Remediation Closure 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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<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, Page 2

Action 423099

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 423099
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<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, Page 3

Action 423099

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 423099
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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
<i>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.</i>	
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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General Information
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Online Phone Directory
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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 423099

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 423099
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>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>	
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
<i>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.</i>	

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QUESTIONS, Page 5

Action 423099

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 423099
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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, Page 6

Action 423099

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 423099
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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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Action 423099

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 423099
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 423099

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 423099
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure approved.	1/24/2025
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	1/24/2025
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the 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; and a revegetation plan.	1/24/2025
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	1/24/2025
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	1/24/2025
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	1/24/2025