



REMEDIATION PLAN UPDATE

EASTERN OFF-PAD AND SOUTHERN ON-PAD AREAS

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

PREPARED FOR:

**EOG RESOURCES, INC.
ARTESIA DIVISION
105 S 4TH STREET
ARTESIA, NEW MEXICO 88210**

PREPARED BY:

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

JULY 20, 2022

A handwritten signature in blue ink, appearing to read "P. Finn", written over a horizontal line.

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

A handwritten signature in blue ink, appearing to read "W. Kierdorf", written over a horizontal line.

**William Kierdorf, REM
Project Manager**

TABLE OF CONTENTS

1.0 SITE LOCATION AND BACKGROUND 1

2.0 SITE REMEDIATION UPDATE 2

 2.1 Project Timeline and Delays 2

 2.2 Historic Drill Pit Boundary Determination 2

 2.3 Vertical Delineation Assessment 3

 2.4 Soil Excavation and Confirmation Sampling Update 3

3.0 ADDITIONAL SITE REMEDIATION ACTIVITIES 4

 3.1 Additional Excavation Area Assessment and Potential Additional Removal 4

 3.2 Pit Area Preparation and Liner Installation 4

 3.3 nAPP2123047534 Impact/Remediation Area 5

4.0 ANTICIPATED TIMELINE 5

FORM C-141

FIGURES

- Topographic Map
- Area Map
- Updated Site Area Map
- Vertical Delineation Sample Location Map
- Confirmation Sample Location Map

TABLES

- Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data
- Vertical Assessment Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

ATTACHMENTS

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



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

1.0 SITE LOCATION AND BACKGROUND

The Roy SWD #3 (site) is located on private land, approximately 13.6 miles southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit N, Section 16, T20S-R24E at GPS coordinates 32.67059, -104.51773. The site, operated by EOG Resources, Inc. (EOG), consists of a salt water disposal well, a tank battery with an earthen containment berm, pump houses and associated equipment. Additionally, an earthen berm surrounds the extent of the facility pad footprint. Historically, operations at the site were 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 incident detailed below, reclamation efforts to decommission the southern portion of the pad were completed. In April and May of 2022, plugging and abandonment of the on-site disposal well was completed. Additionally, the on-site tank battery and associated equipment has been taken out-of-service, decommissioned, and removed from the Site.

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

EOG subsequently engaged Ranger Environmental Services, Inc. (Ranger) to assist in the assessment and remediation efforts at the Site. Ranger personnel completed various site assessment activities to assess and document conditions at the Site. A *Site Characterization and Proposed Remediation Plan*, dated October 12, 2021 ("Remediation Plan"), was prepared and submitted to the NMOCD for review. The plan included full details of the completed site assessment activities and proposed a remediation strategy to address the subject area of concern. Due to the extent of the remedial activities, the plan requested 120 days to allow for sufficient time to complete remedial efforts at the Site. On April 21, 2022, the NMOCD approved the plan with conditions of approval that included work being completed in 90 days.

Due to activities related to the plugging and abandonment of the on-site disposal well and the limited access to the Site, the start of remediation operations was delayed until May 10, 2022. Additionally, throughout the remediation process, various weather and waste disposal related delays occurred which resulted in a prolonged remediation timetable.

This *Remediation Plan Update* has been prepared to provide an update regarding the remedial activities completed to date, an outline of the activities pending completion, and to respectfully request an additional 60 days to complete the remedial activities at the Site.

2.0 SITE REMEDIATION UPDATE

2.1 Project Timeline and Delays

Upon NMOCD approval of the *Remediation Plan*, activities were immediately scheduled to implement the plan. However, due to ongoing activities at the site related to the plugging and abandonment (P&A) of the on-site disposal well and the decommissioning of the on-site tank battery, site access was limited which resulted in a delay to the start of the site remedial activities. The site remedial activities were not able to be initiated until May 10, 2022 following the completion of the P&A and decommissioning operations.

During the site remediation process, various inclement weather events occurred which caused additional project delays. Rain events in the vicinity of the Site and the disposal facility resulted in facility shut downs and limited site access. Additional project delays also occurred due to atypical heavy congestion at the disposal facility. The long waits at the disposal facility significantly increased the turnaround time for the disposal haul trucks which in turn limited the number of loads of excavated materials that could be hauled off site in a given day. Due to the increased time frame to dispose of each load of soil, the material being staged on-site began to accumulate thus limiting the continuation of remedial efforts to the west. The site remedial efforts had to be occasionally paused to allow the accumulated excavated materials to be removed for off-site disposal.

2.2 Historic Drill Pit Boundary Determination

As detailed in the *Remediation Plan*, during the performance of the site assessment activities a subsurface plastic liner was encountered that overlies a closed drill cuttings pit in the southern on-pad area. On May 10, 2022, Ranger personnel and representatives for EOG completed additional test excavations to further delineate the pit boundaries. A total of 46 test excavations were completed to delineate the boundaries of the plastic liner associated with the historic pit location.

During the test excavation installation process, visual inspections for the presence of the plastic liner material were conducted. As detailed in the approved plan, the test excavations were completed for the explicit purpose of identifying the presence of the plastic liner material, thus no field readings or samples for laboratory analysis were collected during the process. The attached *Updated Site Area Map* depicts the completed test excavation locations and illustrates the approximate boundary of the former pit location.

During the pit boundary delineation activities, an area located immediately south of the pit boundary was noted to have elevated soil chloride concentrations. The cause of the soil impacts in this area is currently unknown, additional assessment and delineation of the area is currently ongoing. Based on the observed conditions, this area will be remediated in accordance with the methodologies outlined in the approved *Remediation Plan*. Full details of the assessment and remediation of this area will be included in the site closure report.

2.3 Vertical Delineation Assessment

The vertical delineation of soil impacts within the subject remediation area at the Site has been conducted in two manners. As proposed in the *Remediation Plan*, cleanup confirmation soil samples collected from the remediation area have provided the primary source of vertical impact delineation. Details of the cleanup confirmation sampling activities are included in Section 2.4 of this report. Additional vertical delineation activities have also been completed via the approved vertical delineation test excavations. As detailed in the *Remediation Plan*, two on-pad and two off-pad locations exhibiting “worst-case” soil impacts were investigated at the Site in June 2022.

During the test hole excavation process, Ranger personnel field screened the generated soils using an organic vapor monitor (OVM) and a field chloride titration kit to assist in evaluating the soil conditions and/or levels of impacts, and to determine the apparent vertical extent of the soil impacts at these locations. To confirm that the test excavations had adequately delineated the extent of the soil impacts, soil samples were collected for laboratory analysis from the test excavations.

Upon collection, the soil samples were submitted to Hall Environmental Laboratory Inc. (Hall Laboratory) 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. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

Upon review of the laboratory analytical results for the samples collected from the vertical test excavations, the elevated soil concentrations were documented to have been successfully delineated to concentrations within the applicable NMAC 19.15.29.12 Table 1 Criteria.

The attached *Vertical Delineation Sample Location Map* illustrates the locations of the four vertical assessment test excavations. The soil sample analytical results are summarized in the attached “*Vertical Assessment Soil Sample BTEX, TPH & Chloride (EPA 300) Analytical Data*” table. Copies of the laboratory analytical reports are also attached.

2.4 Soil Excavation and Confirmation Sampling Update

On May 10, 2022, following completion of the P&A and decommissioning activities at the Site, the soil removal operations in the eastern off-pad area were initiated. The soil removal operations were initially completed to a maximum depth of approximately six feet below ground surface (bgs) and to boundaries anticipated to have chemical of concern (COC) concentrations within the applicable NMAC 19.15.29.12 Table 1 Criteria. The excavation activities were initiated within the southeastern extent of the remediation area and were completed moving in a northwestern direction towards the facility boundary and former pit location. To date, approximately 9,000 cubic yards of material have been removed from the Site and transported to disposal at the Lea Land disposal facility in Lea County New Mexico.

During the excavation process, Ranger personnel collected field readings utilizing an OVM and field chloride titration kit to assist in guiding the excavation to appropriate boundaries and depths. Cleanup confirmation soil samples were also collected from the excavated areas in accordance with the approved methods and frequencies as detailed in the approved *Remediation Plan*. All samples collected for laboratory analysis were submitted to Hall Laboratory in Albuquerque, New Mexico for analysis of TPH, BTEX, and total chloride using the aforementioned laboratory

methods. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

Upon receipt of the laboratory analytical reports for the collected cleanup confirmation soil samples, multiple locations were noted to contain COC concentrations remaining in exceedance of the applicable Table 1 Criteria. To address these areas of remaining elevated soil concentrations, additional over-excavation activities were conducted. Additional horizontal overexcavation and cleanup confirmation sampling activities were conducted to address areas noted to have remaining elevated COC concentrations in the excavation sidewalls. To address areas of remaining elevated COC concentrations in the excavation base, limited soil removal operations were completed in select locations beyond six feet bgs.

Due to the above-discussed project delays which have affected the remediation schedule, several locations within the excavation base still remain in exceedance the applicable Table 1 Criteria. Additional assessment activities are currently being conducted to assist in the vertical delineation of the impacts at each of the sample locations exhibiting COC concentrations in exceedance of the target Table 1 Criteria. Upon completing these vertical delineation activities, Ranger will evaluate the data to determine if over-excavation operations to depths of greater than six feet are practical in these areas. Details of the additional assessment activities are included in Section 3.1 of this report.

A *Confirmation Sample Location Map* depicting the current extent of the excavated area and confirmation sample locations is attached. The soil sample analytical results are summarized in the attached "*Confirmation Soil Sample BTEX, TPH & Chloride Analytical Data*" table. Copies of the laboratory analytical reports are also attached.

3.0 ADDITIONAL SITE REMEDIATION ACTIVITIES

Based upon the above, the following additional operations are currently scheduled to be completed as soon as safely possible.

3.1 Additional Excavation Area Assessment and Potential Additional Removal

As previously stated, various locations within the excavation base remain in exceedance of the applicable Table 1 Criteria. In order to further assess these locations and determine if additional removal is viable, test excavations will be completed in each sample area containing COC concentrations that remain in exceedance of the target Table 1 Criteria. This vertical test excavation data will be used to help determine if these locations can be further over-excavated without adversely affecting the stability or integrity of the former pit.

The additional assessment activities are currently ongoing, and upon completion each test excavation location will be individually evaluated. Over-excavation activities will be conducted at the locations deemed appropriate for additional removal.

3.2 Pit Area Preparation and Liner Installation

Due to the location of the subject remediation area in such close proximity to the historic drill pit, the removal of the affected soils overlying the plastic pit liner and the preparation of the former pit area for the liner has not been completed. During the remediation process, the former pit location



has been utilized as a staging area for the excavated materials designated for off-site disposal. Additionally, the removal of the affected soils overlying the plastic pit liner needs to be completed just prior to the installation of the geosynthetic clay liner (GCL) in order to limit the exposure of the former pit to the elements.

The removal of the affected soils overlying the plastic pit liner and the preparation of the pit area for the approved installation of the GCL liner will be conducted upon completion of the additional vertical assessment and over-excavation activities detailed in Section 3.1.

3.3 nAPP2123047534 Impact/Remediation Area

During the performance of the remedial efforts associated with the subject release incident, removal operations in the northern/northwestern remediation area came into contact with the impact/proposed remediation area associated with the August 16, 2021 (nAPP2123047534) release incident. As anticipated, sample locations in the immediate vicinity of the adjacent impact/proposed remediation area were noted to have elevated soil COC concentrations. The August 16, 2021 (nAPP2123047534) release incident is currently pending NMOCD review of the Ranger-prepared *Proposed Remediation Plan* dated March 11, 2022. Prior to beginning excavation into the adjacent release incident area, NMOCD response and approval is desired.

4.0 ANTICIPATED TIMELINE

Based on the unanticipated project delays and the remaining site assessment and remedial activities which need to be completed, EOG anticipates an additional 60 days will be required for project completion. The remaining assessment, soil removal and liner installation activities are expected to be completed within 45 days. An additional 15 days will be required for the preparation of the site closure report.

Upon completion of the remaining site remedial efforts, a Closure Form C-141 and full Closure Report will be submitted to the NMOCD, and Site closure will be requested. The Closure Report will be completed in accordance with the closure reporting criteria detailed in NMAC 19.15.29.12(E).

FORM C-141

Incident ID	nAPP2111046250
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Chase Settle Title: Rep Safety and Environmental Sr
 Signature: Chase Settle Date: 07/20/2022
 email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

FIGURES

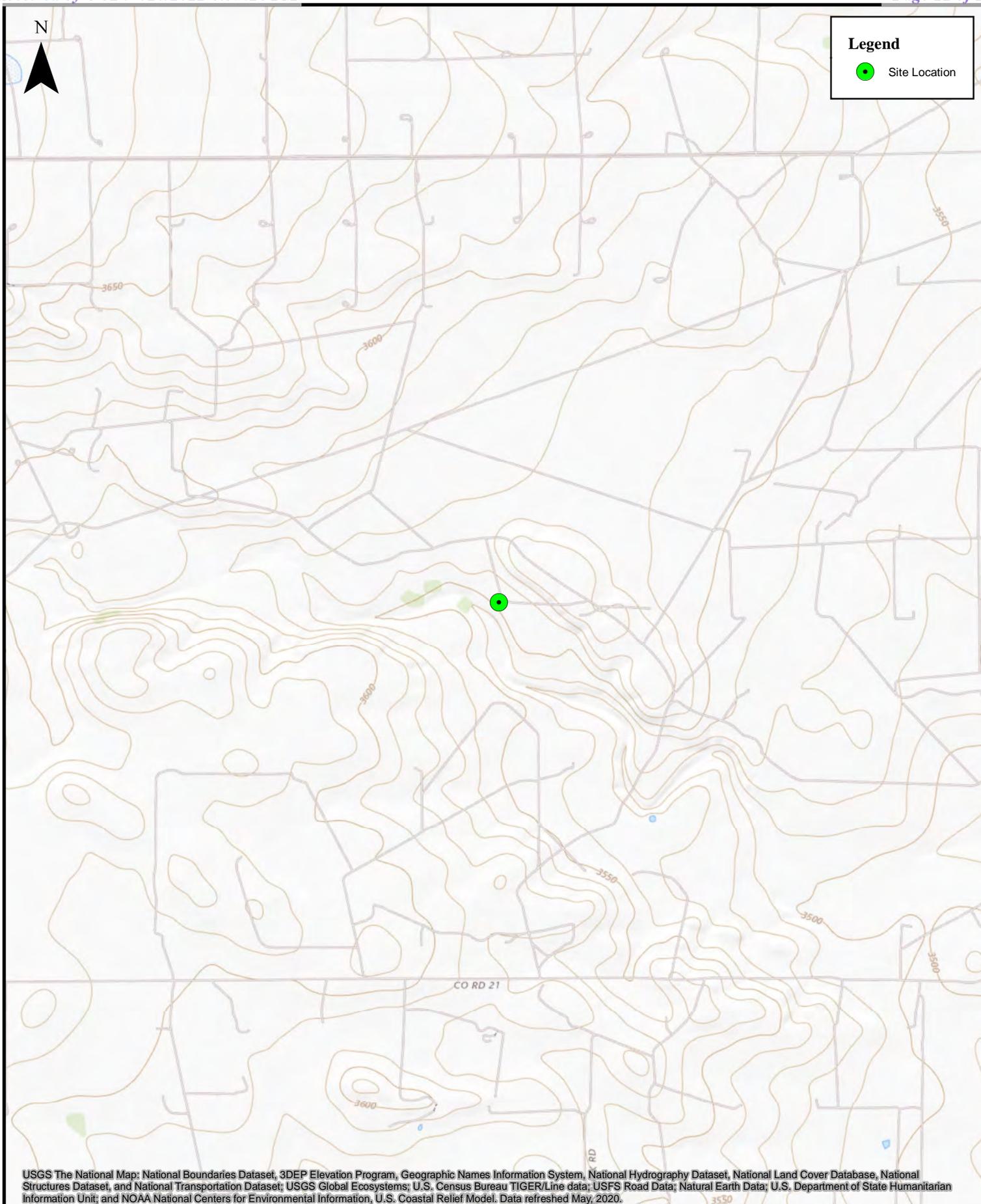
Topographic Map

Area Map

Updated Site Area Map

Vertical Delineation Sample Location Map

Confirmation Sample Location Map



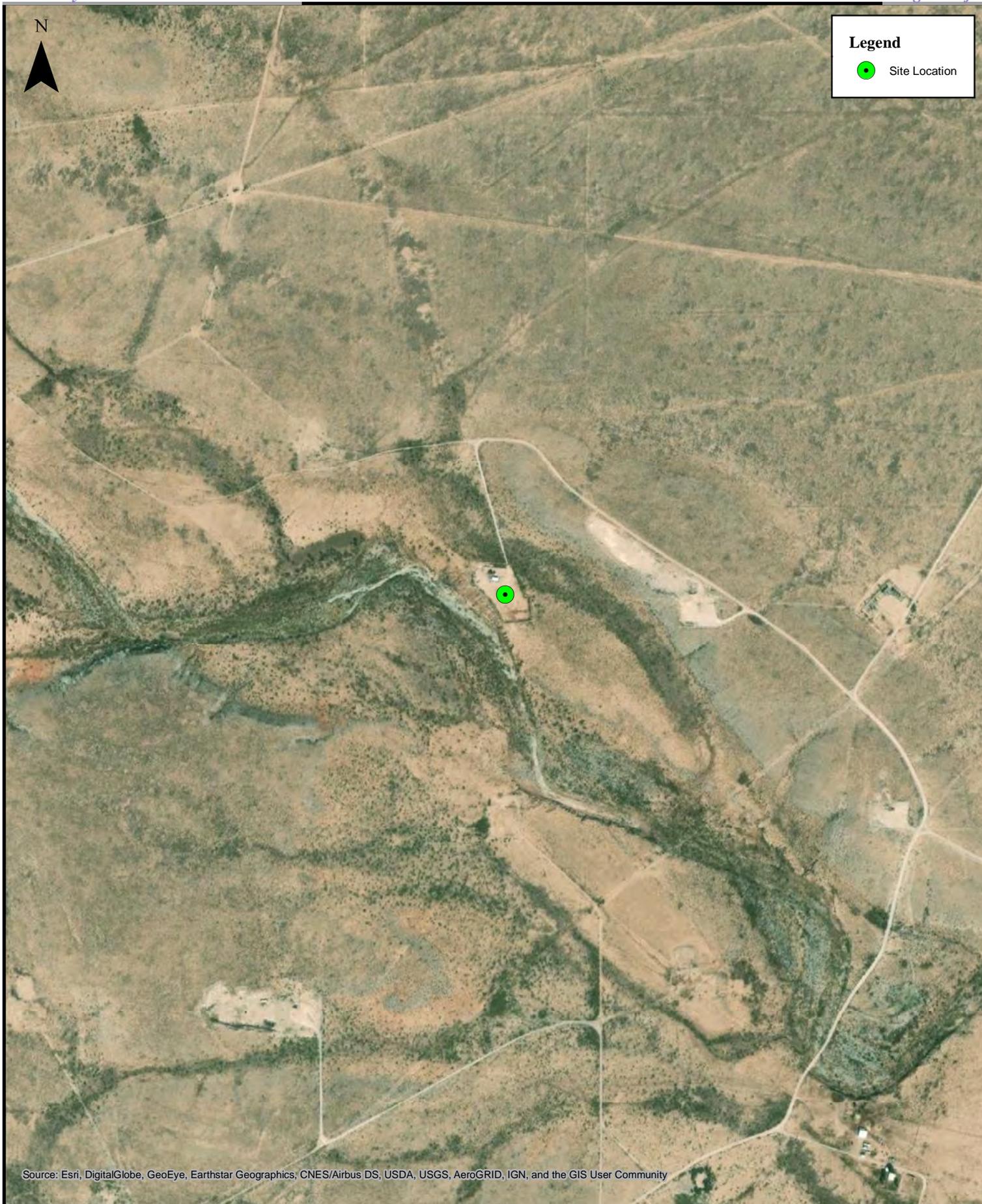
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS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



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

1:24,000

Topographic Map
 Roy SWD #3
 EOG Resources, Inc.

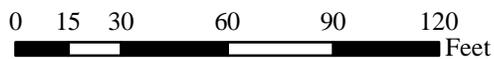
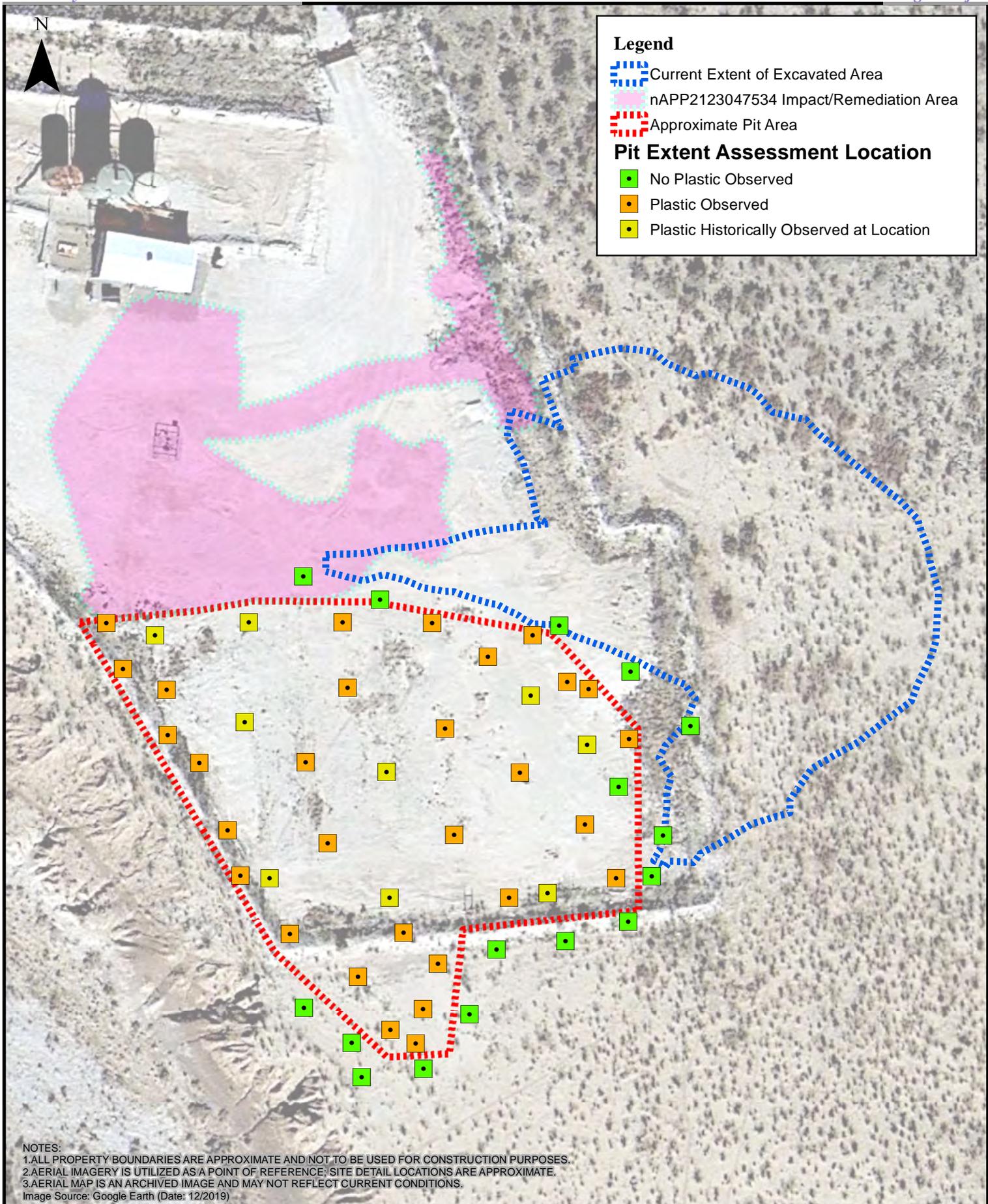


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



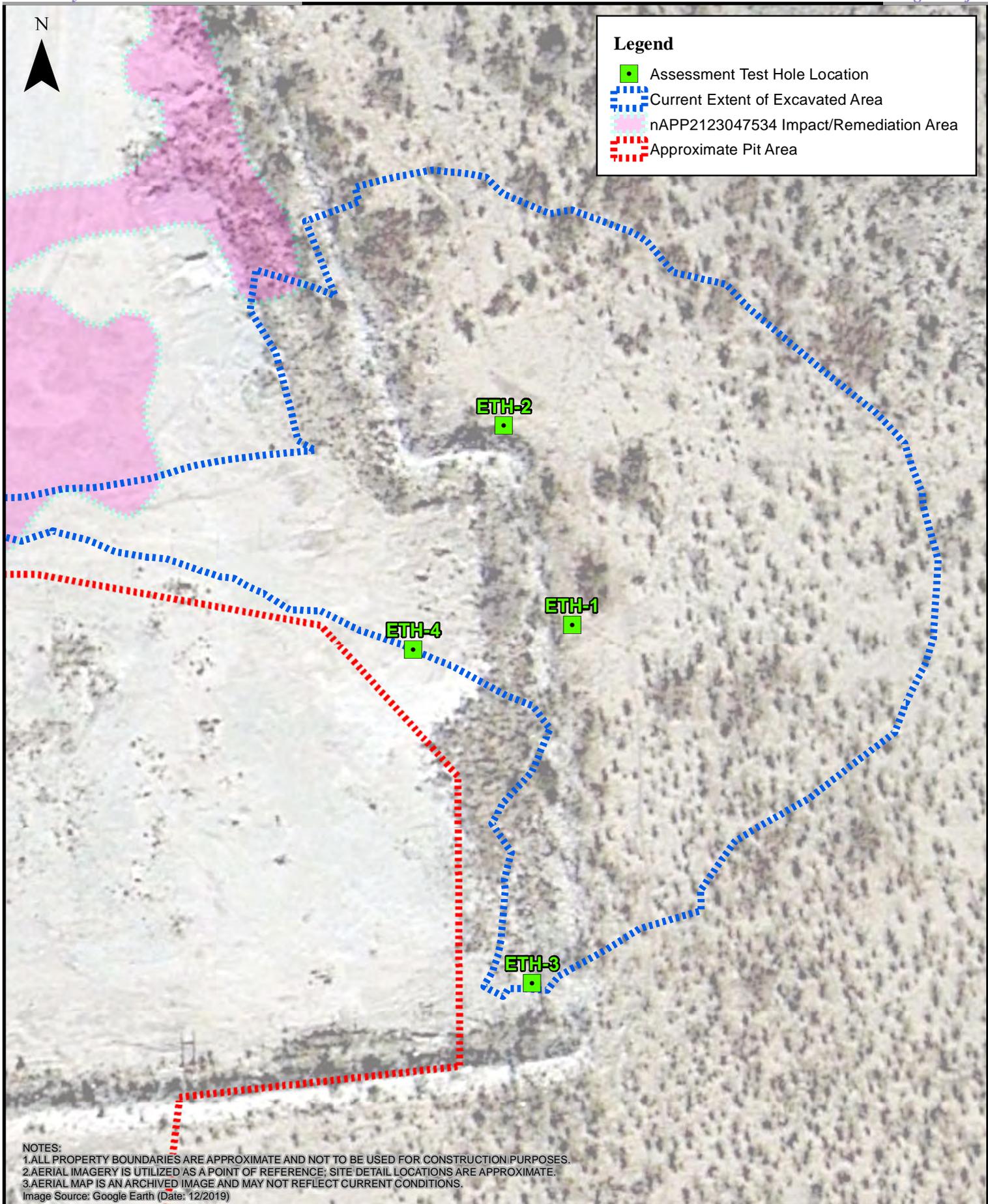
1:10,000

Area Map
Roy SWD #3
EOG Resources, Inc.



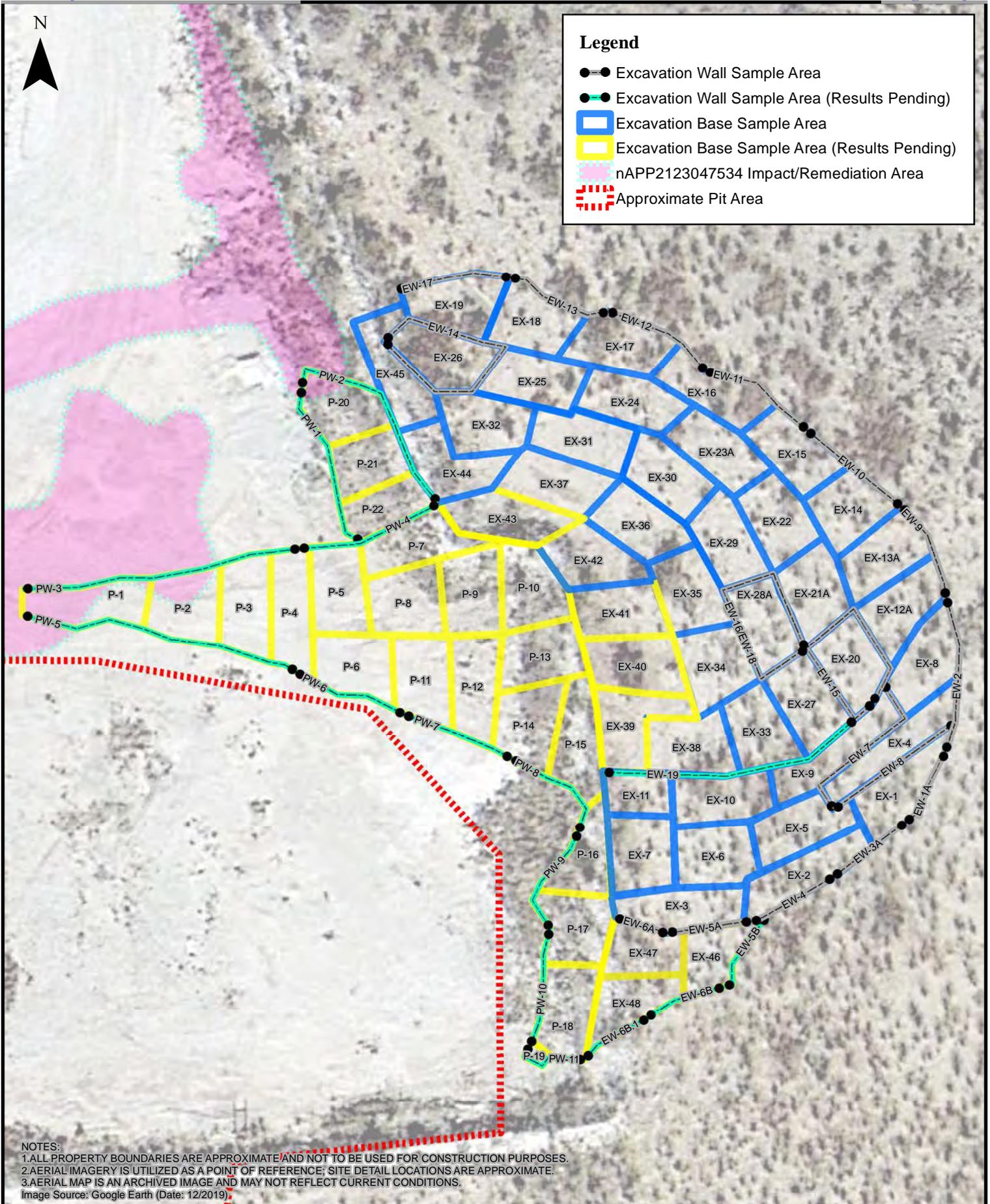
1:650

Updated Site Area Map
 Roy SWD #3
 EOG Resources, Inc.



1:408

Vertical Delineation Sample Location Map
 Roy SWD #3
 EOG Resources, Inc.



1:425

Confirmation Sample Location Map
 Roy SWD #3
 EOG Resources, Inc.

TABLES

Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) &
Chloride (EPA 300) Analytical Data

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													
ROY SWD #3													
EDDY COUNTY, NEW MEXICO													
All values presented in parts per million (mg/Kg)													
SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	CHLORIDE
Excavation Base Soil Samples													
EX-1	5/25/2022	8'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.5	<47	<9.5	<47	660
EX-2	5/25/2022	8'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.5	<48	<9.5	<48	750
EX-3	5/25/2022	8'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.5	<47	<9.5	<47	590
EX-4	5/16/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.6	<48	<9.6	<48	530
EX-5	5/16/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.7	<49	<9.7	<49	550
EX-6	5/25/2022	8'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.6	<48	<9.6	<48	540
EX-7	5/25/2022	8'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.8	<49	<9.8	<49	590
EX-8	5/16/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.7	<49	<9.7	<49	210
EX-9	5/25/2022	8'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<15	<49	<15	<49	520
EX-10	5/25/2022	8'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.8	<49	<9.8	<49	520
EX-11	5/25/2022	8'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.6	<48	<9.6	<48	530
EX-12	6/3/2022	6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<14	<48	<14	<48	670
EX-12A	6/7/2022	6.5'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<47	<14	<47	520
EX-13	6/3/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<46	<14	<46	640
EX-13A	6/7/2022	6.5'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<47	<14	<47	510
EX-14	6/3/2022	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<47	<14	<47	450
EX-15	6/3/2022	6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<15	<49	<15	<49	550
EX-16	6/3/2022	6'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<47	<14	<47	510
EX-17	6/3/2022	6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<14	<47	<14	<47	540
EX-18	6/3/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<50	<15	<50	460
EX-19	6/6/2022	6.5'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<46	<14	<46	360
EX-20	6/6/2022	8'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<47	<14	<47	560
EX-21	6/3/2022	6'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<47	<14	<47	780
EX-21A	6/7/2022	7'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<47	<14	<47	600
EX-22	6/3/2022	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<46	<14	<46	410
EX-23	6/3/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<46	<14	<46	680
EX-23A	6/7/2022	6.5'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<14	<47	<14	<47	380
EX-24	6/3/2022	6'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<15	<50	<15	<50	280
EX-25	6/3/2022	6'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<14	<47	<14	<47	450
EX-26	6/6/2022	8'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<49	<15	<49	410
EX-27	6/6/2022	6.5'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<48	<14	<48	450
EX-28	6/6/2022	8'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<46	<14	<46	860
EX-28A	6/20/2022	9'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<48	<14	<48	720
EX-29	6/3/2022	6'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<14	<46	<14	<46	290
EX-30	6/3/2022	6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<50	<15	<50	360
EX-31	6/6/2022	6.5'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<51	<15	<51	190
EX-32	6/6/2022	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<13	<44	<13	<44	200
EX-33	6/7/2022	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<47	<14	<47	830
EX-34	6/7/2022	6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<49	<15	<49	710
EX-35	6/7/2022	6'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<15	<49	<15	<49	760
EX-36	6/7/2022	6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<48	<14	<48	390
EX-37	6/7/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<49	<15	<49	670
EX-38	6/7/2022	6'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<13	<44	<13	<44	1,200
EX-42	6/7/2022	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<48	<14	<48	2,000
EX-44	6/7/2022	6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<49	<15	<49	1,100
EX-45	6/7/2022	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<48	<14	<48	660
Excavation Side Wall Soil Samples													
EW-1	5/25/2022	0'-8'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.4	<46	<9.4	<46	720
EW-1A	6/9/2022	0'-8'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<15	<49	<15	<49	480
EW-2	5/16/2022	0'-8'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.5	<48	<9.5	<48	240
EW-3	5/25/2022	0'-8'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<9.4	<47	840
EW-3A	6/9/2022	0'-8'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<46	<14	<46	470
EW-4	5/25/2022	0'-8'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<8.2	<41	<8.2	<41	550
EW-5	5/25/2022	0'-8'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<4.4	<47	<4.4	<47	700
EW-5A	6/9/2022	0'-8'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<47	<14	<47	470
EW-6	5/25/2022	0'-8'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.7	<48	<9.7	<48	750
EW-6A	6/9/2022	0'-8'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<46	<14	<46	470
EW-7	6/20/2022	4'-8'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<48	<14	<48	360
EW-8	6/7/2022	4'-8'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<14	<47	<14	<47	360
EW-9	6/3/2022	0'-6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<49	<15	<49	340
EW-10	6/3/2022	0'-6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<48	<14	<48	290
EW-11	6/3/2022	0'-6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<49	<15	<49	270
EW-12	6/3/2022	0'-6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<49	<15	<49	130
EW-13	6/3/2022	0'-6'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<46	<14	<46	310
EW-14	6/6/2022	4'-6'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<49	<15	<49	170
EW-15	6/6/2022	4'-6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<50	<15	<50	160
EW-16	6/6/2022	6'-8'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<45	<14	<45	160
EW-17	6/7/2022	0'-6'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<48	<14	<48	84
EW-18	6/20/2022	8'-9'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<13	<44	<13	<44	880
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. Strikethrough indicates that a sample area has been over-excavated.													

VERTICAL ASSESSMENT 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
ETH-1/7	6/9/2022	7'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<13	<44	<13	<44	3,700
ETH-1/14	6/9/2022	14'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<45	<14	<45	600
ETH-1/18	6/9/2022	18'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<48	<14	<48	380
ETH-2/7	6/9/2022	7'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<13	<43	<13	<43	2,200
ETH-2/12	6/9/2022	12'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<14	<46	<14	<46	480
ETH-2/15	6/9/2022	15'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<46	<14	<46	400
ETH-3/1	6/15/2022	1'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<47	<14	<47	<60
ETH-3/4	6/15/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<15	<49	<15	<49	<60
ETH-3/8	6/15/2022	8'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<13	<43	<13	<43	75
ETH-4/4	6/22/2000	4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<50	<15	<50	2,000
ETH-4/9	6/22/2022	9'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<48	<14	<48	770
ETH-4/12	6/22/2022	12'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<14	<48	<14	<48	170
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 *Procedures for the Implementation of the Spill Rule* (19.15.29 NMAC) dated September 6, 2019.

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

ATTACHMENT 1 – PHOTOGRAPHIC
DOCUMENTATION



PHOTOGRAPH NO. 1 – A general view of the historic pit location boundary determination assessment activities. Plastic pit liner material can be observed at the location.



PHOTOGRAPH NO. 2 – A general view of the remedial soil excavation activities on May 23, 2022. The view is towards the north-northwest.

Approximate GPS Coordinates: 32.670438, -104.516790



PHOTOGRAPH NO. 3 – A view of over-excavation activities in the “EX-2” sample area on July 12, 2022. The view is towards the southwest.

Approximate GPS Coordinates: 32.670304, -104.516711



PHOTOGRAPH NO. 4 – A view of the excavation area on July 12, 2022. The view is towards the south.

Approximate GPS Coordinates: 32.670739, -104.517029



PHOTOGRAPH NO. 5 – A view of the former pit location in August 2021. Note vegetation growth of the former pit location. The view is towards the south.

Approximate GPS Coordinates: 32.670509, -104.517614



PHOTOGRAPH NO. 6 – A current view of the former pit area in June 2022. Due to the remedial activities at the Site, vegetation growth in the area has been negatively affected. The view is towards the southeast.

Approximate GPS Coordinates: 32.670428, -104.517780

ATTACHMENT 2 – LABORATORY ANALYTICAL RESULTS



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

June 02, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Roy SWD 3

OrderNo.: 2205925

Dear Will Kierdorf:

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

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2205925**

Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-4

Project: Roy SWD 3

Collection Date: 5/16/2022 9:36:00 AM

Lab ID: 2205925-001

Matrix: SOIL

Received Date: 5/20/2022 7:05:00 AM

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

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

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

Analytical Report

Lab Order **2205925**

Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-5

Project: Roy SWD 3

Collection Date: 5/16/2022 9:42:00 AM

Lab ID: 2205925-002

Matrix: SOIL

Received Date: 5/20/2022 7:05:00 AM

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

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

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

Analytical Report

Lab Order **2205925**

Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-8

Project: Roy SWD 3

Collection Date: 5/16/2022 9:51:00 AM

Lab ID: 2205925-003

Matrix: SOIL

Received Date: 5/20/2022 7:05:00 AM

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

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

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

Analytical Report

Lab Order **2205925**

Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-2

Project: Roy SWD 3

Collection Date: 5/16/2022 12:26:00 PM

Lab ID: 2205925-004

Matrix: SOIL

Received Date: 5/20/2022 7:05:00 AM

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical 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#: 2205925

02-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: LCS-67699	SampType: ics	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: mbk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 67699	RunNo: 88285								
Prep Date: 5/25/2022	Analysis Date: 5/25/2022	SeqNo: 3131012	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2205925

02-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-67669	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67669		RunNo: 88246							
Prep Date: 5/24/2022	Analysis Date: 5/26/2022		SeqNo: 3131392		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.1	51.1	141			

Sample ID: LCS-67669	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 67669		RunNo: 88246							
Prep Date: 5/24/2022	Analysis Date: 5/26/2022		SeqNo: 3131393		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.4	64.4	127			
Surr: DNOP	4.8		5.000		95.9	51.1	141			

Sample ID: MB-67680	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67680		RunNo: 88246							
Prep Date: 5/25/2022	Analysis Date: 5/26/2022		SeqNo: 3132682		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		93.1	51.1	141			

Sample ID: LCS-67680	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 67680		RunNo: 88246							
Prep Date: 5/25/2022	Analysis Date: 5/26/2022		SeqNo: 3132685		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.1	51.1	141			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2205925

02-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: mb-67605	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 67605	RunNo: 88206								
Prep Date: 5/20/2022	Analysis Date: 5/24/2022	SeqNo: 3126958	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.8	37.7	212			

Sample ID: lcs-67605	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 67605	RunNo: 88206								
Prep Date: 5/20/2022	Analysis Date: 5/23/2022	SeqNo: 3126959	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	72.3	137			
Surr: BFB	2000		1000		200	37.7	212			

Sample ID: lcs-67637	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 67637	RunNo: 88236								
Prep Date: 5/23/2022	Analysis Date: 5/24/2022	SeqNo: 3128820	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		202	37.7	212			

Sample ID: mb-67637	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 67637	RunNo: 88236								
Prep Date: 5/23/2022	Analysis Date: 5/24/2022	SeqNo: 3128821	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		93.2	37.7	212			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2205925

02-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: mb-67605	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 67605	RunNo: 88206								
Prep Date: 5/20/2022	Analysis Date: 5/24/2022	SeqNo: 3127001	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	70	130			

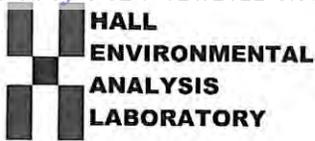
Sample ID: LCS-67605	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 67605	RunNo: 88206								
Prep Date: 5/20/2022	Analysis Date: 5/23/2022	SeqNo: 3127002	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.3	80	120			
Toluene	0.92	0.050	1.000	0	92.3	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.6	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: lcs-67637	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 67637	RunNo: 88236								
Prep Date: 5/23/2022	Analysis Date: 5/24/2022	SeqNo: 3128876	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	70	130			

Sample ID: mb-67637	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 67637	RunNo: 88236								
Prep Date: 5/23/2022	Analysis Date: 5/24/2022	SeqNo: 3128877	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.5	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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



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

Sample Log-In Check List

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

Received By: Juan Rojas 5/20/2022 7:05:00 AM
Completed By: Juan Rojas 5/20/2022 7:40:04 AM
Reviewed By: SCR 5/20/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

Person Notified: [] Date []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.5, Good, [], [], [], []

Chain-of-Custody Record

Client: Bob Artesia

Mailing Address: ON FILE

Phone #: _____

email or Fax#: _____

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

Accreditation: Az Compliance Other

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 CP): 1.6-0.1-1.5 (°C)

Container Type and #

Preservative Type

HEAL No.

1x 4oz Jar	ECE	-001
I	I	-002
I	I	-003
I	I	-004

Date	Time	Matrix	Sample Name
5/16/22	0936	Soil	Ex-4
	0942		Ex-5
	0951		Ex-8
	1226		EW-2

Relinquished by: W. Kennedy Date: 5/16/22 Time: 1215

Relinquished by: W. Kennedy Date: 5/16/22 Time: 1900

Received by: W. Kennedy Date: 5/16/22 Time: 1715

Received by: W. Kennedy Date: 5/16/22 Time: 1700



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMB's (8021)	X
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 (EPA300)	X

Remarks:



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

June 08, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Roy SWD 3

OrderNo.: 2205D06

Dear Will Kierdorf:

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

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2205D06**

Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-1

Project: Roy SWD 3

Collection Date: 5/25/2022 10:55:00 AM

Lab ID: 2205D06-001

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation 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 **2205D06**

Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-2

Project: Roy SWD 3

Collection Date: 5/25/2022 10:57:00 AM

Lab ID: 2205D06-002

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

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

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

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

Analytical Report

Lab Order **2205D06**

Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-3

Project: Roy SWD 3

Collection Date: 5/25/2022 10:59:00 AM

Lab ID: 2205D06-003

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

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

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

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

Analytical Report

Lab Order **2205D06**

Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-6

Project: Roy SWD 3

Collection Date: 5/25/2022 11:01:00 AM

Lab ID: 2205D06-004

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

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

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

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

Analytical Report

Lab Order **2205D06**

Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-7

Project: Roy SWD 3

Collection Date: 5/25/2022 11:03:00 AM

Lab ID: 2205D06-005

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

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

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

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

Analytical Report

Lab Order **2205D06**

Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-9

Project: Roy SWD 3

Collection Date: 5/25/2022 11:05:00 AM

Lab ID: 2205D06-006

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

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

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

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

Analytical Report

Lab Order **2205D06**

Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-10

Project: Roy SWD 3

Collection Date: 5/25/2022 11:07:00 AM

Lab ID: 2205D06-007

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

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

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

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

Analytical Report

Lab Order **2205D06**

Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-11

Project: Roy SWD 3

Collection Date: 5/25/2022 11:09:00 AM

Lab ID: 2205D06-008

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

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

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

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

Analytical Report

Lab Order **2205D06**

Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-1

Project: Roy SWD 3

Collection Date: 5/25/2022 11:11:00 AM

Lab ID: 2205D06-009

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

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

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

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

Analytical Report

Lab Order **2205D06**

Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-3

Project: Roy SWD 3

Collection Date: 5/25/2022 11:13:00 AM

Lab ID: 2205D06-010

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

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

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

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

Analytical Report

Lab Order **2205D06**

Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-4

Project: Roy SWD 3

Collection Date: 5/25/2022 11:15:00 AM

Lab ID: 2205D06-011

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

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

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

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

Analytical Report

Lab Order **2205D06**

Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-5

Project: Roy SWD 3

Collection Date: 5/25/2022 11:17:00 AM

Lab ID: 2205D06-012

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

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

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

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

Analytical Report

Lab Order **2205D06**

Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-6

Project: Roy SWD 3

Collection Date: 5/25/2022 11:19:00 AM

Lab ID: 2205D06-013

Matrix: SOIL

Received Date: 5/28/2022 8:00:00 AM

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical 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#: 2205D06

08-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-67861	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 67861	RunNo: 88448								
Prep Date: 6/2/2022	Analysis Date: 6/2/2022	SeqNo: 3137969	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67861	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67861	RunNo: 88448								
Prep Date: 6/2/2022	Analysis Date: 6/2/2022	SeqNo: 3137970	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Sample ID: LCS-67872	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67872	RunNo: 88449								
Prep Date: 6/2/2022	Analysis Date: 6/2/2022	SeqNo: 3138047	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2205D06

08-Jun-22

Client: EOG
Project: Roy SWD 3

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

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

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

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

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

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2205D06

08-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: ics-67777	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 67777	RunNo: 88377								
Prep Date: 5/29/2022	Analysis Date: 5/31/2022	SeqNo: 3135016	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.8	72.3	137			
Surr: BFB	1800		1000		183	37.7	212			

Sample ID: mb-67777	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 67777	RunNo: 88377								
Prep Date: 5/29/2022	Analysis Date: 5/31/2022	SeqNo: 3135017	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		86.7	37.7	212			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2205D06

08-Jun-22

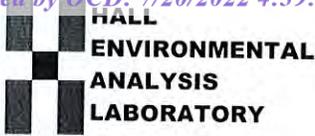
Client: EOG
Project: Roy SWD 3

Sample ID: lcs-67777	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 67777	RunNo: 88377								
Prep Date: 5/29/2022	Analysis Date: 5/31/2022	SeqNo: 3135071	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.2	80	120			
Toluene	0.94	0.050	1.000	0	94.0	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.6	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	70	130			

Sample ID: mb-67777	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 67777	RunNo: 88377								
Prep Date: 5/29/2022	Analysis Date: 5/31/2022	SeqNo: 3135072	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.1	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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



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

Sample Log-In Check List

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

Received By: Cheyenne Cason 5/28/2022 8:00:00 AM
Completed By: Cheyenne Cason 5/28/2022 8:37:46 AM
Reviewed By: [Signature] 05/28/2022

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by [Signature]

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 4.1, 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

June 13, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Roy SWD 3

OrderNo.: 2206300

Dear Will Kierdorf:

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

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-12

Project: Roy SWD 3

Collection Date: 6/3/2022 9:02:00 AM

Lab ID: 2206300-001

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-13

Project: Roy SWD 3

Collection Date: 6/3/2022 9:04:00 AM

Lab ID: 2206300-002

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation 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 **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-14

Project: Roy SWD 3

Collection Date: 6/3/2022 9:08:00 AM

Lab ID: 2206300-003

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation 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 **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-15

Project: Roy SWD 3

Collection Date: 6/3/2022 9:10:00 AM

Lab ID: 2206300-004

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-16

Project: Roy SWD 3

Collection Date: 6/3/2022 9:12:00 AM

Lab ID: 2206300-005

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-17

Project: Roy SWD 3

Collection Date: 6/3/2022 9:15:00 AM

Lab ID: 2206300-006

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-18

Project: Roy SWD 3

Collection Date: 6/3/2022 9:17:00 AM

Lab ID: 2206300-007

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation 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 **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-21

Project: Roy SWD 3

Collection Date: 6/3/2022 10:31:00 AM

Lab ID: 2206300-008

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-22

Project: Roy SWD 3

Collection Date: 6/3/2022 10:17:00 AM

Lab ID: 2206300-009

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-23

Project: Roy SWD 3

Collection Date: 6/3/2022 10:20:00 AM

Lab ID: 2206300-010

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-24

Project: Roy SWD 3

Collection Date: 6/3/2022 10:24:00 AM

Lab ID: 2206300-011

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-25

Project: Roy SWD 3

Collection Date: 6/3/2022 10:27:00 AM

Lab ID: 2206300-012

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-9

Project: Roy SWD 3

Collection Date: 6/3/2022 11:02:00 AM

Lab ID: 2206300-013

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-10

Project: Roy SWD 3

Collection Date: 6/3/2022 11:05:00 AM

Lab ID: 2206300-014

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-11

Project: Roy SWD 3

Collection Date: 6/3/2022 11:10:00 AM

Lab ID: 2206300-015

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-12

Project: Roy SWD 3

Collection Date: 6/3/2022 11:13:00 AM

Lab ID: 2206300-016

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-13

Project: Roy SWD 3

Collection Date: 6/3/2022 11:17:00 AM

Lab ID: 2206300-017

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-29

Project: Roy SWD 3

Collection Date: 6/3/2022 12:28:00 PM

Lab ID: 2206300-018

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

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

Analytical Report

Lab Order **2206300**

Date Reported: **6/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-30

Project: Roy SWD 3

Collection Date: 6/3/2022 12:31:00 PM

Lab ID: 2206300-019

Matrix: SOIL

Received Date: 6/7/2022 7:00:00 AM

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical 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#: 2206300

13-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-68025	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68025	RunNo: 88636								
Prep Date: 6/9/2022	Analysis Date: 6/9/2022	SeqNo: 3146113	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68025	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68025	RunNo: 88636								
Prep Date: 6/9/2022	Analysis Date: 6/9/2022	SeqNo: 3146114	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Sample ID: MB-68005	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68005	RunNo: 88636								
Prep Date: 6/9/2022	Analysis Date: 6/9/2022	SeqNo: 3146143	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68005	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68005	RunNo: 88636								
Prep Date: 6/9/2022	Analysis Date: 6/9/2022	SeqNo: 3146144	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2206300

13-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-67958	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67958	RunNo: 88561								
Prep Date: 6/7/2022	Analysis Date: 6/8/2022	SeqNo: 3144709	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		99.5	51.1	141			

Sample ID: LCS-67958	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67958	RunNo: 88561								
Prep Date: 6/7/2022	Analysis Date: 6/8/2022	SeqNo: 3144710	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.2	64.4	127			
Surr: DNOP	3.8		5.000		75.9	51.1	141			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2206300

13-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: ics-67947	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 67947	RunNo: 88560								
Prep Date: 6/7/2022	Analysis Date: 6/8/2022	SeqNo: 3143805	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	72.3	137			
Surr: BFB	2100		1000		213	37.7	212			S

Sample ID: mb-67947	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 67947	RunNo: 88560								
Prep Date: 6/7/2022	Analysis Date: 6/8/2022	SeqNo: 3143807	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.6	37.7	212			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2206300

13-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: LCS-67947	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 67947	RunNo: 88560								
Prep Date: 6/7/2022	Analysis Date: 6/8/2022	SeqNo: 3143855	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	80	120			
Toluene	0.98	0.050	1.000	0	97.9	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	70	130			

Sample ID: mb-67947	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 67947	RunNo: 88560								
Prep Date: 6/7/2022	Analysis Date: 6/8/2022	SeqNo: 3143857	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2206300

RcptNo: 1

Received By: Cheyenne Cason

6/7/2022 7:00:00 AM

Handwritten signature

Completed By: Cheyenne Cason

6/7/2022 7:23:57 AM

Handwritten signature

Reviewed By: *Handwritten signature* 6-7-22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? 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: *Handwritten signature* 6/7/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

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



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

July 06, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Roy SWD 3

OrderNo.: 2206593

Dear Will Kierdorf:

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

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

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-19

Project: Roy SWD 3

Collection Date: 6/6/2022 9:15:00 AM

Lab ID: 2206593-001

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

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

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-20

Project: Roy SWD 3

Collection Date: 6/6/2022 1:50:00 PM

Lab ID: 2206593-002

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

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

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-26

Project: Roy SWD 3

Collection Date: 6/6/2022 2:45:00 PM

Lab ID: 2206593-003

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation 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 **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-27

Project: Roy SWD 3

Collection Date: 6/6/2022 9:20:00 AM

Lab ID: 2206593-004

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

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

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-28

Project: Roy SWD 3

Collection Date: 6/6/2022 1:52:00 PM

Lab ID: 2206593-005

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

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

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-31

Project: Roy SWD 3

Collection Date: 6/6/2022 9:24:00 AM

Lab ID: 2206593-006

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

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

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-32

Project: Roy SWD 3

Collection Date: 6/6/2022 11:17:00 AM

Lab ID: 2206593-007

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

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

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-14

Project: Roy SWD 3

Collection Date: 6/6/2022 2:47:00 PM

Lab ID: 2206593-008

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

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

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-15

Project: Roy SWD 3

Collection Date: 6/6/2022 1:54:00 PM

Lab ID: 2206593-009

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

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

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation 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 **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-16

Project: Roy SWD 3

Collection Date: 6/6/2022 1:56:00 PM

Lab ID: 2206593-010

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

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

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-17

Project: Roy SWD 3

Collection Date: 6/7/2022 11:50:00 AM

Lab ID: 2206593-011

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

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

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

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

Analytical Report

Lab Order **2206593**

Date Reported: 7/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-33

Project: Roy SWD 3

Collection Date: 6/7/2022 10:30:00 AM

Lab ID: 2206593-012

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

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

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-34

Project: Roy SWD 3

Collection Date: 6/7/2022 10:32:00 AM

Lab ID: 2206593-013

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	710	59		mg/Kg	20	6/15/2022 5:41:55 PM	68131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/15/2022 10:37:11 PM	68067
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2022 10:37:11 PM	68067
Surr: DNOP	89.9	51.1-141		%Rec	1	6/15/2022 10:37:11 PM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2022 10:28:00 PM	68042
Surr: BFB	84.9	37.7-212		%Rec	1	6/13/2022 10:28:00 PM	68042
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/13/2022 10:28:00 PM	68042
Toluene	ND	0.050		mg/Kg	1	6/13/2022 10:28:00 PM	68042
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2022 10:28:00 PM	68042
Xylenes, Total	ND	0.10		mg/Kg	1	6/13/2022 10:28:00 PM	68042
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	6/13/2022 10:28:00 PM	68042

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-35

Project: Roy SWD 3

Collection Date: 6/7/2022 10:34:00 AM

Lab ID: 2206593-014

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	760	60		mg/Kg	20	6/15/2022 6:43:40 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/15/2022 10:48:27 PM	68067
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2022 10:48:27 PM	68067
Surr: DNOP	82.9	51.1-141		%Rec	1	6/15/2022 10:48:27 PM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/13/2022 10:47:00 PM	68042
Surr: BFB	84.4	37.7-212		%Rec	1	6/13/2022 10:47:00 PM	68042
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/13/2022 10:47:00 PM	68042
Toluene	ND	0.047		mg/Kg	1	6/13/2022 10:47:00 PM	68042
Ethylbenzene	ND	0.047		mg/Kg	1	6/13/2022 10:47:00 PM	68042
Xylenes, Total	ND	0.094		mg/Kg	1	6/13/2022 10:47:00 PM	68042
Surr: 4-Bromofluorobenzene	81.7	70-130		%Rec	1	6/13/2022 10:47:00 PM	68042

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-36

Project: Roy SWD 3

Collection Date: 6/7/2022 10:36:00 AM

Lab ID: 2206593-015

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	390	60		mg/Kg	20	6/15/2022 6:56:00 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/15/2022 10:59:42 PM	68067
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2022 10:59:42 PM	68067
Surr: DNOP	76.7	51.1-141		%Rec	1	6/15/2022 10:59:42 PM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2022 11:07:00 PM	68042
Surr: BFB	83.2	37.7-212		%Rec	1	6/13/2022 11:07:00 PM	68042
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/13/2022 11:07:00 PM	68042
Toluene	ND	0.049		mg/Kg	1	6/13/2022 11:07:00 PM	68042
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2022 11:07:00 PM	68042
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2022 11:07:00 PM	68042
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	6/13/2022 11:07:00 PM	68042

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-37

Project: Roy SWD 3

Collection Date: 6/7/2022 10:38:00 AM

Lab ID: 2206593-016

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	670	60		mg/Kg	20	6/15/2022 7:08:20 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/15/2022 11:10:58 PM	68067
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2022 11:10:58 PM	68067
Surr: DNOP	74.2	51.1-141		%Rec	1	6/15/2022 11:10:58 PM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/13/2022 11:27:00 PM	68042
Surr: BFB	84.4	37.7-212		%Rec	1	6/13/2022 11:27:00 PM	68042
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/13/2022 11:27:00 PM	68042
Toluene	ND	0.048		mg/Kg	1	6/13/2022 11:27:00 PM	68042
Ethylbenzene	ND	0.048		mg/Kg	1	6/13/2022 11:27:00 PM	68042
Xylenes, Total	ND	0.096		mg/Kg	1	6/13/2022 11:27:00 PM	68042
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	6/13/2022 11:27:00 PM	68042

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-38

Project: Roy SWD 3

Collection Date: 6/7/2022 10:40:00 AM

Lab ID: 2206593-017

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1200	60		mg/Kg	20	6/15/2022 7:20:41 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/15/2022 11:22:08 PM	68067
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/15/2022 11:22:08 PM	68067
Surr: DNOP	72.3	51.1-141		%Rec	1	6/15/2022 11:22:08 PM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2022 11:46:00 PM	68042
Surr: BFB	85.1	37.7-212		%Rec	1	6/13/2022 11:46:00 PM	68042
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/13/2022 11:46:00 PM	68042
Toluene	ND	0.050		mg/Kg	1	6/13/2022 11:46:00 PM	68042
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2022 11:46:00 PM	68042
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2022 11:46:00 PM	68042
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	6/13/2022 11:46:00 PM	68042

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-42

Project: Roy SWD 3

Collection Date: 6/7/2022 11:19:00 AM

Lab ID: 2206593-018

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2000	59		mg/Kg	20	6/15/2022 7:33:01 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/15/2022 11:33:21 PM	68067
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2022 11:33:21 PM	68067
Surr: DNOP	76.6	51.1-141		%Rec	1	6/15/2022 11:33:21 PM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/14/2022 12:06:00 AM	68042
Surr: BFB	86.7	37.7-212		%Rec	1	6/14/2022 12:06:00 AM	68042
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/14/2022 12:06:00 AM	68042
Toluene	ND	0.048		mg/Kg	1	6/14/2022 12:06:00 AM	68042
Ethylbenzene	ND	0.048		mg/Kg	1	6/14/2022 12:06:00 AM	68042
Xylenes, Total	ND	0.096		mg/Kg	1	6/14/2022 12:06:00 AM	68042
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	6/14/2022 12:06:00 AM	68042

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-44

Project: Roy SWD 3

Collection Date: 6/7/2022 11:45:00 AM

Lab ID: 2206593-019

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1100	61		mg/Kg	20	6/15/2022 7:45:23 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/15/2022 11:44:32 PM	68067
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2022 11:44:32 PM	68067
Surr: DNOP	91.0	51.1-141		%Rec	1	6/15/2022 11:44:32 PM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2022 12:25:00 AM	68042
Surr: BFB	85.1	37.7-212		%Rec	1	6/14/2022 12:25:00 AM	68042
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/14/2022 12:25:00 AM	68042
Toluene	ND	0.049		mg/Kg	1	6/14/2022 12:25:00 AM	68042
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2022 12:25:00 AM	68042
Xylenes, Total	ND	0.099		mg/Kg	1	6/14/2022 12:25:00 AM	68042
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	6/14/2022 12:25:00 AM	68042

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation 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 **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-45

Project: Roy SWD 3

Collection Date: 6/7/2022 11:47:00 AM

Lab ID: 2206593-020

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	660	60		mg/Kg	20	6/15/2022 7:57:44 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/15/2022 11:55:40 PM	68067
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2022 11:55:40 PM	68067
Surr: DNOP	86.8	51.1-141		%Rec	1	6/15/2022 11:55:40 PM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/14/2022 12:45:00 AM	68042
Surr: BFB	85.6	37.7-212		%Rec	1	6/14/2022 12:45:00 AM	68042
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/14/2022 12:45:00 AM	68042
Toluene	ND	0.048		mg/Kg	1	6/14/2022 12:45:00 AM	68042
Ethylbenzene	ND	0.048		mg/Kg	1	6/14/2022 12:45:00 AM	68042
Xylenes, Total	ND	0.097		mg/Kg	1	6/14/2022 12:45:00 AM	68042
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	6/14/2022 12:45:00 AM	68042

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation 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 **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: ETH-1/7

Project: Roy SWD 3

Collection Date: 6/9/2022 10:45:00 AM

Lab ID: 2206593-021

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3700	150		mg/Kg	50	6/16/2022 11:24:46 AM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/16/2022 12:06:46 AM	68067
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/16/2022 12:06:46 AM	68067
Surr: DNOP	90.3	51.1-141		%Rec	1	6/16/2022 12:06:46 AM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2022 2:43:00 AM	68044
Surr: BFB	92.2	37.7-212		%Rec	1	6/14/2022 2:43:00 AM	68044
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/14/2022 2:43:00 AM	68044
Toluene	ND	0.049		mg/Kg	1	6/14/2022 2:43:00 AM	68044
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2022 2:43:00 AM	68044
Xylenes, Total	ND	0.098		mg/Kg	1	6/14/2022 2:43:00 AM	68044
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	6/14/2022 2:43:00 AM	68044

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: ETH-1/14

Project: Roy SWD 3

Collection Date: 6/9/2022 11:19:00 AM

Lab ID: 2206593-022

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	600	60		mg/Kg	20	6/15/2022 8:47:05 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 12:17:54 AM	68067
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/16/2022 12:17:54 AM	68067
Surr: DNOP	82.2	51.1-141		%Rec	1	6/16/2022 12:17:54 AM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2022 3:42:00 AM	68044
Surr: BFB	85.5	37.7-212		%Rec	1	6/14/2022 3:42:00 AM	68044
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/14/2022 3:42:00 AM	68044
Toluene	ND	0.049		mg/Kg	1	6/14/2022 3:42:00 AM	68044
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2022 3:42:00 AM	68044
Xylenes, Total	ND	0.097		mg/Kg	1	6/14/2022 3:42:00 AM	68044
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	6/14/2022 3:42:00 AM	68044

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: ETH-1/18

Project: Roy SWD 3

Collection Date: 6/9/2022 11:42:00 AM

Lab ID: 2206593-023

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	380	60		mg/Kg	20	6/15/2022 8:59:25 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 12:29:02 AM	68067
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/16/2022 12:29:02 AM	68067
Surr: DNOP	81.1	51.1-141		%Rec	1	6/16/2022 12:29:02 AM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2022 4:41:00 AM	68044
Surr: BFB	88.5	37.7-212		%Rec	1	6/14/2022 4:41:00 AM	68044
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/14/2022 4:41:00 AM	68044
Toluene	ND	0.049		mg/Kg	1	6/14/2022 4:41:00 AM	68044
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2022 4:41:00 AM	68044
Xylenes, Total	ND	0.098		mg/Kg	1	6/14/2022 4:41:00 AM	68044
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	1	6/14/2022 4:41:00 AM	68044

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: ETH-2/7

Project: Roy SWD 3

Collection Date: 6/9/2022 1:05:00 PM

Lab ID: 2206593-024

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2200	60		mg/Kg	20	6/15/2022 9:11:46 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/16/2022 4:02:50 PM	68067
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/16/2022 4:02:50 PM	68067
Surr: DNOP	107	51.1-141		%Rec	1	6/16/2022 4:02:50 PM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/14/2022 5:01:00 AM	68044
Surr: BFB	84.6	37.7-212		%Rec	1	6/14/2022 5:01:00 AM	68044
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/14/2022 5:01:00 AM	68044
Toluene	ND	0.048		mg/Kg	1	6/14/2022 5:01:00 AM	68044
Ethylbenzene	ND	0.048		mg/Kg	1	6/14/2022 5:01:00 AM	68044
Xylenes, Total	ND	0.095		mg/Kg	1	6/14/2022 5:01:00 AM	68044
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	6/14/2022 5:01:00 AM	68044

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: ETH-2/12

Project: Roy SWD 3

Collection Date: 6/9/2022 1:17:00 PM

Lab ID: 2206593-025

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	480	60		mg/Kg	20	6/15/2022 9:24:07 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 12:51:06 AM	68067
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/16/2022 12:51:06 AM	68067
Surr: DNOP	101	51.1-141		%Rec	1	6/16/2022 12:51:06 AM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/14/2022 5:20:00 AM	68044
Surr: BFB	86.4	37.7-212		%Rec	1	6/14/2022 5:20:00 AM	68044
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/14/2022 5:20:00 AM	68044
Toluene	ND	0.047		mg/Kg	1	6/14/2022 5:20:00 AM	68044
Ethylbenzene	ND	0.047		mg/Kg	1	6/14/2022 5:20:00 AM	68044
Xylenes, Total	ND	0.093		mg/Kg	1	6/14/2022 5:20:00 AM	68044
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	6/14/2022 5:20:00 AM	68044

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: ETH-2/15

Project: Roy SWD 3

Collection Date: 6/9/2022 1:29:00 PM

Lab ID: 2206593-026

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	400	60		mg/Kg	20	6/15/2022 10:01:10 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 1:02:10 AM	68067
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/16/2022 1:02:10 AM	68067
Surr: DNOP	88.7	51.1-141		%Rec	1	6/16/2022 1:02:10 AM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2022 5:40:00 AM	68044
Surr: BFB	88.3	37.7-212		%Rec	1	6/14/2022 5:40:00 AM	68044
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/14/2022 5:40:00 AM	68044
Toluene	ND	0.049		mg/Kg	1	6/14/2022 5:40:00 AM	68044
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2022 5:40:00 AM	68044
Xylenes, Total	ND	0.098		mg/Kg	1	6/14/2022 5:40:00 AM	68044
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	6/14/2022 5:40:00 AM	68044

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation 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 **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-1

Project: Roy SWD 3

Collection Date: 6/9/2022 9:15:00 AM

Lab ID: 2206593-027

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	480	60		mg/Kg	20	6/15/2022 10:38:11 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/16/2022 1:13:15 AM	68067
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/16/2022 1:13:15 AM	68067
Surr: DNOP	84.2	51.1-141		%Rec	1	6/16/2022 1:13:15 AM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/14/2022 6:00:00 AM	68044
Surr: BFB	88.6	37.7-212		%Rec	1	6/14/2022 6:00:00 AM	68044
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/14/2022 6:00:00 AM	68044
Toluene	ND	0.046		mg/Kg	1	6/14/2022 6:00:00 AM	68044
Ethylbenzene	ND	0.046		mg/Kg	1	6/14/2022 6:00:00 AM	68044
Xylenes, Total	ND	0.092		mg/Kg	1	6/14/2022 6:00:00 AM	68044
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	6/14/2022 6:00:00 AM	68044

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-3

Project: Roy SWD 3

Collection Date: 6/9/2022 9:17:00 AM

Lab ID: 2206593-028

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	470	60		mg/Kg	20	6/15/2022 11:15:12 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 1:24:15 AM	68067
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/16/2022 1:24:15 AM	68067
Surr: DNOP	63.5	51.1-141		%Rec	1	6/16/2022 1:24:15 AM	68067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/14/2022 6:20:00 AM	68044
Surr: BFB	85.1	37.7-212		%Rec	1	6/14/2022 6:20:00 AM	68044
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/14/2022 6:20:00 AM	68044
Toluene	ND	0.048		mg/Kg	1	6/14/2022 6:20:00 AM	68044
Ethylbenzene	ND	0.048		mg/Kg	1	6/14/2022 6:20:00 AM	68044
Xylenes, Total	ND	0.096		mg/Kg	1	6/14/2022 6:20:00 AM	68044
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	6/14/2022 6:20:00 AM	68044

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-5

Project: Roy SWD 3

Collection Date: 6/9/2022 10:02:00 AM

Lab ID: 2206593-029

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	470	60		mg/Kg	20	6/15/2022 11:27:33 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 4:48:47 PM	68103
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/16/2022 4:48:47 PM	68103
Surr: DNOP	105	51.1-141		%Rec	1	6/16/2022 4:48:47 PM	68103
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2022 6:39:00 AM	68044
Surr: BFB	87.3	37.7-212		%Rec	1	6/14/2022 6:39:00 AM	68044
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/14/2022 6:39:00 AM	68044
Toluene	ND	0.049		mg/Kg	1	6/14/2022 6:39:00 AM	68044
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2022 6:39:00 AM	68044
Xylenes, Total	ND	0.098		mg/Kg	1	6/14/2022 6:39:00 AM	68044
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	6/14/2022 6:39:00 AM	68044

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

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

Analytical Report

Lab Order **2206593**

Date Reported: **7/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-6

Project: Roy SWD 3

Collection Date: 6/9/2022 10:04:00 AM

Lab ID: 2206593-030

Matrix: SOIL

Received Date: 6/10/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	470	60		mg/Kg	20	6/15/2022 11:39:54 PM	68134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/16/2022 4:59:43 PM	68103
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/16/2022 4:59:43 PM	68103
Surr: DNOP	98.1	51.1-141		%Rec	1	6/16/2022 4:59:43 PM	68103
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/14/2022 6:59:00 AM	68044
Surr: BFB	89.5	37.7-212		%Rec	1	6/14/2022 6:59:00 AM	68044
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/14/2022 6:59:00 AM	68044
Toluene	ND	0.047		mg/Kg	1	6/14/2022 6:59:00 AM	68044
Ethylbenzene	ND	0.047		mg/Kg	1	6/14/2022 6:59:00 AM	68044
Xylenes, Total	ND	0.094		mg/Kg	1	6/14/2022 6:59:00 AM	68044
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	6/14/2022 6:59:00 AM	68044

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical 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#: 2206593

06-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-68102	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68102	RunNo: 88714								
Prep Date: 6/14/2022	Analysis Date: 6/14/2022	SeqNo: 3150715	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68102	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68102	RunNo: 88714								
Prep Date: 6/14/2022	Analysis Date: 6/14/2022	SeqNo: 3150716	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.9	90	110			

Sample ID: MB-68131	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68131	RunNo: 88758								
Prep Date: 6/15/2022	Analysis Date: 6/15/2022	SeqNo: 3152167	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68131	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68131	RunNo: 88758								
Prep Date: 6/15/2022	Analysis Date: 6/15/2022	SeqNo: 3152168	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Sample ID: MB-68134	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68134	RunNo: 88758								
Prep Date: 6/15/2022	Analysis Date: 6/15/2022	SeqNo: 3152203	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68134	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68134	RunNo: 88758								
Prep Date: 6/15/2022	Analysis Date: 6/15/2022	SeqNo: 3152204	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2206593

06-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-68065	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68065	RunNo: 88742								
Prep Date: 6/13/2022	Analysis Date: 6/15/2022	SeqNo: 3151428	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.2	51.1	141			

Sample ID: LCS-68065	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68065	RunNo: 88742								
Prep Date: 6/13/2022	Analysis Date: 6/15/2022	SeqNo: 3152628	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	15	50.00	0	99.1	64.4	127			
Surr: DNOP	4.6		5.000		92.7	51.1	141			

Sample ID: LCS-68067	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68067	RunNo: 88742								
Prep Date: 6/13/2022	Analysis Date: 6/15/2022	SeqNo: 3152629	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	15	50.00	0	101	64.4	127			
Surr: DNOP	5.0		5.000		100	51.1	141			

Sample ID: MB-68067	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68067	RunNo: 88742								
Prep Date: 6/13/2022	Analysis Date: 6/15/2022	SeqNo: 3152630	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.7	51.1	141			

Sample ID: LCS-68103	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68103	RunNo: 88796								
Prep Date: 6/14/2022	Analysis Date: 6/16/2022	SeqNo: 3154083	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	15	50.00	0	116	64.4	127			
Surr: DNOP	6.0		5.000		120	51.1	141			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2206593

06-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-68103	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68103	RunNo: 88796								
Prep Date: 6/14/2022	Analysis Date: 6/16/2022	SeqNo: 3154084			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	51.1	141			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2206593

06-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: ics-68042	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 68042		RunNo: 88678							
Prep Date: 6/10/2022	Analysis Date: 6/13/2022		SeqNo: 3148521		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.7	72.3	137			
Surr: BFB	2800		1000		276	37.7	212			S

Sample ID: mb-68042	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 68042		RunNo: 88678							
Prep Date: 6/10/2022	Analysis Date: 6/13/2022		SeqNo: 3148522		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		82.9	37.7	212			

Sample ID: ics-68044	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 68044		RunNo: 88678							
Prep Date: 6/10/2022	Analysis Date: 6/14/2022		SeqNo: 3148545		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.0	72.3	137			
Surr: BFB	1900		1000		191	37.7	212			

Sample ID: mb-68044	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 68044		RunNo: 88678							
Prep Date: 6/10/2022	Analysis Date: 6/14/2022		SeqNo: 3148546		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.6	37.7	212			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2206593

06-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: ics-68042	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68042		RunNo: 88678							
Prep Date: 6/10/2022	Analysis Date: 6/13/2022		SeqNo: 3148559		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.2	80	120			
Toluene	0.94	0.050	1.000	0	93.7	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.8	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		84.4	70	130			

Sample ID: mb-68042	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68042		RunNo: 88678							
Prep Date: 6/10/2022	Analysis Date: 6/13/2022		SeqNo: 3148560		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.82		1.000		82.1	70	130			

Sample ID: ics-68044	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68044		RunNo: 88678							
Prep Date: 6/10/2022	Analysis Date: 6/14/2022		SeqNo: 3148594		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.4	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.0	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.5	70	130			

Sample ID: mb-68044	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68044		RunNo: 88678							
Prep Date: 6/10/2022	Analysis Date: 6/14/2022		SeqNo: 3148595		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.3	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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



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

Sample Log-In Check List

Client Name: EOG Work Order Number: 2206593 RcptNo: 1

Received By: Cheyenne Cason 6/10/2022 7:20:00 AM
Completed By: Sean Livingston 6/10/2022 8:38:17 AM
Reviewed By: KPA 6.10.22

Handwritten signatures: Cason, S. Livingston

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH:
Adjusted?
Checked by: CMC 6/10/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified:
By Whom:
Regarding:
Client Instructions:
Date:
Via: [] eMail [] Phone [] Fax [] In Person

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 5.6, Good, [], [], []

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

Turn-Around Time: Standard Rush 5 day TAT
 Project Name: Roy Swob TAT
 Project #: 5375

Project Manager: W. Kierdorf
 Sampler: W. Kennedy
 On Ice: Yes No
 # of Coolers: 5
 Cooler Temp (Cooling Off): 5 6 0 5 6

QAVC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance Other
 NELAC Other
 EDD (Type) Excel

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
6/9/22	1317	Soil	ETH-2/12	1x402jar	ICE	025	X	X	X
6/9/22	1329	L	ETH-2/15	L	L	024	L	L	L
6/9/22	0915	Soil	EW-1A 18716	1x402jar	ICE	027	X	X	X
6/9/22	0917	L	EW-3A 18716	L	L	028	L	L	L
6/9/22	1002	L	EW-GA 18714	L	L	029	L	L	L
6/9/22	1004	L	EW-60A 18714	L	L	030	L	L	L

Received by: W. Kennedy Date: 6/9/22 Time: 1458
 Received by: Chc cavin Date: 6/10/22 Time: 0700
 Relinquished by: W. Kennedy Date: 6/9/22 Time: 1458
 Relinquished by: W. Kennedy Date: 6/9/22 Time: 1458

Analysis Request

Analysis Request									
------------------	--	--	--	--	--	--	--	--	--

Remarks: Bill to EOG Artesia

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



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

June 30, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Roy SWD 3

OrderNo.: 2206B35

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 11 sample(s) on 6/22/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2206B35**

Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: ETH-3/1

Project: Roy SWD 3

Collection Date: 6/15/2022 1:10:00 PM

Lab ID: 2206B35-001

Matrix:

Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2022 3:32:38 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 6:20:52 PM	68331
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2022 6:20:52 PM	68331
Surr: DNOP	105	51.1-141		%Rec	1	6/24/2022 6:20:52 PM	68331
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2022 5:16:00 PM	68296
Surr: BFB	86.5	37.7-212		%Rec	1	6/24/2022 5:16:00 PM	68296
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/24/2022 5:16:00 PM	68296
Toluene	ND	0.048		mg/Kg	1	6/24/2022 5:16:00 PM	68296
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2022 5:16:00 PM	68296
Xylenes, Total	ND	0.097		mg/Kg	1	6/24/2022 5:16:00 PM	68296
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	6/24/2022 5:16:00 PM	68296

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

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

Analytical Report

Lab Order 2206B35

Date Reported: 6/30/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: ETH-3/4

Project: Roy SWD 3

Collection Date: 6/15/2022 1:16:00 PM

Lab ID: 2206B35-002

Matrix:

Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2022 3:45:02 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/24/2022 7:04:56 PM	68328
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/24/2022 7:04:56 PM	68328
Surr: DNOP	93.6	51.1-141		%Rec	1	6/24/2022 7:04:56 PM	68328
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2022 7:54:00 PM	68315
Surr: BFB	86.9	37.7-212		%Rec	1	6/24/2022 7:54:00 PM	68315
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/24/2022 7:54:00 PM	68315
Toluene	ND	0.049		mg/Kg	1	6/24/2022 7:54:00 PM	68315
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2022 7:54:00 PM	68315
Xylenes, Total	ND	0.097		mg/Kg	1	6/24/2022 7:54:00 PM	68315
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	6/24/2022 7:54:00 PM	68315

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

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

Analytical Report

Lab Order **2206B35**

Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: ETH-3/8

Project: Roy SWD 3

Collection Date: 6/15/2022 1:33:00 PM

Lab ID: 2206B35-003

Matrix:

Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	75	60		mg/Kg	20	6/27/2022 4:22:15 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/24/2022 7:38:00 PM	68328
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/24/2022 7:38:00 PM	68328
Surr: DNOP	106	51.1-141		%Rec	1	6/24/2022 7:38:00 PM	68328
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/24/2022 8:53:00 PM	68315
Surr: BFB	85.7	37.7-212		%Rec	1	6/24/2022 8:53:00 PM	68315
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/24/2022 8:53:00 PM	68315
Toluene	ND	0.047		mg/Kg	1	6/24/2022 8:53:00 PM	68315
Ethylbenzene	ND	0.047		mg/Kg	1	6/24/2022 8:53:00 PM	68315
Xylenes, Total	ND	0.094		mg/Kg	1	6/24/2022 8:53:00 PM	68315
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	6/24/2022 8:53:00 PM	68315

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

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

Analytical Report

Lab Order **2206B35**

Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-7

Project: Roy SWD 3

Collection Date: 6/20/2022 10:00:00 AM

Lab ID: 2206B35-004

Matrix:

Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	360	60		mg/Kg	20	6/27/2022 4:34:39 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 7:49:00 PM	68328
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/24/2022 7:49:00 PM	68328
Surr: DNOP	79.0	51.1-141		%Rec	1	6/24/2022 7:49:00 PM	68328
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2022 9:52:00 PM	68315
Surr: BFB	87.2	37.7-212		%Rec	1	6/24/2022 9:52:00 PM	68315
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/24/2022 9:52:00 PM	68315
Toluene	ND	0.050		mg/Kg	1	6/24/2022 9:52:00 PM	68315
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2022 9:52:00 PM	68315
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2022 9:52:00 PM	68315
Surr: 4-Bromofluorobenzene	84.5	70-130		%Rec	1	6/24/2022 9:52:00 PM	68315

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

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

Analytical Report

Lab Order **2206B35**

Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-8

Project: Roy SWD 3

Collection Date: 6/20/2022 10:02:00 AM

Lab ID: 2206B35-005

Matrix:

Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	360	60		mg/Kg	20	6/27/2022 4:47:03 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 7:59:59 PM	68328
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2022 7:59:59 PM	68328
Surr: DNOP	79.0	51.1-141		%Rec	1	6/24/2022 7:59:59 PM	68328
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2022 10:12:00 PM	68315
Surr: BFB	86.0	37.7-212		%Rec	1	6/24/2022 10:12:00 PM	68315
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/24/2022 10:12:00 PM	68315
Toluene	ND	0.048		mg/Kg	1	6/24/2022 10:12:00 PM	68315
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2022 10:12:00 PM	68315
Xylenes, Total	ND	0.095		mg/Kg	1	6/24/2022 10:12:00 PM	68315
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	6/24/2022 10:12:00 PM	68315

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

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

Analytical Report

Lab Order **2206B35**

Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-12A

Project: Roy SWD 3

Collection Date: 6/20/2022 10:37:00 AM

Lab ID: 2206B35-006

Matrix:

Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	520	60		mg/Kg	20	6/27/2022 5:24:16 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 8:10:59 PM	68328
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2022 8:10:59 PM	68328
Surr: DNOP	57.7	51.1-141		%Rec	1	6/24/2022 8:10:59 PM	68328
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2022 10:32:00 PM	68315
Surr: BFB	85.0	37.7-212		%Rec	1	6/24/2022 10:32:00 PM	68315
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/24/2022 10:32:00 PM	68315
Toluene	ND	0.048		mg/Kg	1	6/24/2022 10:32:00 PM	68315
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2022 10:32:00 PM	68315
Xylenes, Total	ND	0.097		mg/Kg	1	6/24/2022 10:32:00 PM	68315
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	6/24/2022 10:32:00 PM	68315

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

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

Analytical Report

Lab Order **2206B35**

Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-13A

Project: Roy SWD 3

Collection Date: 6/20/2022 10:39:00 AM

Lab ID: 2206B35-007

Matrix:

Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	510	60		mg/Kg	20	6/27/2022 5:36:40 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 8:21:52 PM	68328
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2022 8:21:52 PM	68328
Surr: DNOP	65.3	51.1-141		%Rec	1	6/24/2022 8:21:52 PM	68328
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2022 10:52:00 PM	68315
Surr: BFB	85.2	37.7-212		%Rec	1	6/24/2022 10:52:00 PM	68315
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/24/2022 10:52:00 PM	68315
Toluene	ND	0.049		mg/Kg	1	6/24/2022 10:52:00 PM	68315
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2022 10:52:00 PM	68315
Xylenes, Total	ND	0.098		mg/Kg	1	6/24/2022 10:52:00 PM	68315
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	6/24/2022 10:52:00 PM	68315

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

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

Analytical Report

Lab Order **2206B35**

Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-21A

Project: Roy SWD 3

Collection Date: 6/20/2022 11:15:00 AM

Lab ID: 2206B35-008

Matrix:

Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	600	60		mg/Kg	20	6/27/2022 6:13:54 PM	68377
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 8:32:50 PM	68328
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2022 8:32:50 PM	68328
Surr: DNOP	77.5	51.1-141		%Rec	1	6/24/2022 8:32:50 PM	68328
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2022 11:11:00 PM	68315
Surr: BFB	87.9	37.7-212		%Rec	1	6/24/2022 11:11:00 PM	68315
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/24/2022 11:11:00 PM	68315
Toluene	ND	0.050		mg/Kg	1	6/24/2022 11:11:00 PM	68315
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2022 11:11:00 PM	68315
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2022 11:11:00 PM	68315
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	6/24/2022 11:11:00 PM	68315

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

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

Analytical Report

Lab Order **2206B35**

Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-23A

Project: Roy SWD 3

Collection Date: 6/20/2022 10:43:00 AM

Lab ID: 2206B35-009

Matrix:

Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	380	60		mg/Kg	20	6/28/2022 12:13:39 AM	68393
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 8:43:41 PM	68328
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2022 8:43:41 PM	68328
Surr: DNOP	97.1	51.1-141		%Rec	1	6/24/2022 8:43:41 PM	68328
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/24/2022 11:31:00 PM	68315
Surr: BFB	87.6	37.7-212		%Rec	1	6/24/2022 11:31:00 PM	68315
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/24/2022 11:31:00 PM	68315
Toluene	ND	0.046		mg/Kg	1	6/24/2022 11:31:00 PM	68315
Ethylbenzene	ND	0.046		mg/Kg	1	6/24/2022 11:31:00 PM	68315
Xylenes, Total	ND	0.092		mg/Kg	1	6/24/2022 11:31:00 PM	68315
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	6/24/2022 11:31:00 PM	68315

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

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

Analytical Report

Lab Order **2206B35**

Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EX-28A

Project: Roy SWD 3

Collection Date: 6/20/2022 11:17:00 AM

Lab ID: 2206B35-010

Matrix:

Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	720	60		mg/Kg	20	6/28/2022 12:26:04 AM	68393
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/24/2022 8:54:35 PM	68328
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/24/2022 8:54:35 PM	68328
Surr: DNOP	60.4	51.1-141		%Rec	1	6/24/2022 8:54:35 PM	68328
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/24/2022 11:51:00 PM	68315
Surr: BFB	86.5	37.7-212		%Rec	1	6/24/2022 11:51:00 PM	68315
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/24/2022 11:51:00 PM	68315
Toluene	ND	0.047		mg/Kg	1	6/24/2022 11:51:00 PM	68315
Ethylbenzene	ND	0.047		mg/Kg	1	6/24/2022 11:51:00 PM	68315
Xylenes, Total	ND	0.094		mg/Kg	1	6/24/2022 11:51:00 PM	68315
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	6/24/2022 11:51:00 PM	68315

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

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

Analytical Report

Lab Order **2206B35**

Date Reported: **6/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-18

Project: Roy SWD 3

Collection Date: 6/20/2022 11:40:00 AM

Lab ID: 2206B35-011

Matrix:

Received Date: 6/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	880	60		mg/Kg	20	6/28/2022 12:38:29 AM	68393
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/29/2022 3:12:37 PM	68328
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/29/2022 3:12:37 PM	68328
Surr: DNOP	68.6	51.1-141		%Rec	1	6/29/2022 3:12:37 PM	68328
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/25/2022 12:11:00 AM	68315
Surr: BFB	88.7	37.7-212		%Rec	1	6/25/2022 12:11:00 AM	68315
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/25/2022 12:11:00 AM	68315
Toluene	ND	0.049		mg/Kg	1	6/25/2022 12:11:00 AM	68315
Ethylbenzene	ND	0.049		mg/Kg	1	6/25/2022 12:11:00 AM	68315
Xylenes, Total	ND	0.098		mg/Kg	1	6/25/2022 12:11:00 AM	68315
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	6/25/2022 12:11:00 AM	68315

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical 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#: 2206B35

30-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-68377	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68377	RunNo: 89045								
Prep Date: 6/27/2022	Analysis Date: 6/27/2022	SeqNo: 3164356	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68377	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68377	RunNo: 89045								
Prep Date: 6/27/2022	Analysis Date: 6/27/2022	SeqNo: 3164357	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	90	110			

Sample ID: MB-68393	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68393	RunNo: 89045								
Prep Date: 6/27/2022	Analysis Date: 6/27/2022	SeqNo: 3164388	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68393	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68393	RunNo: 89045								
Prep Date: 6/27/2022	Analysis Date: 6/27/2022	SeqNo: 3164389	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2206B35

30-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: LCS-68331	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68331	RunNo: 89016								
Prep Date: 6/23/2022	Analysis Date: 6/24/2022	SeqNo: 3161315	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	15	50.00	0	121	64.4	127			
Surr: DNOP	5.8		5.000		116	51.1	141			

Sample ID: MB-68331	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68331	RunNo: 89016								
Prep Date: 6/23/2022	Analysis Date: 6/24/2022	SeqNo: 3161317	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.3	51.1	141			

Sample ID: LCS-68328	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68328	RunNo: 89016								
Prep Date: 6/23/2022	Analysis Date: 6/24/2022	SeqNo: 3162504	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	50.00	0	108	64.4	127			
Surr: DNOP	5.0		5.000		99.8	51.1	141			

Sample ID: MB-68328	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68328	RunNo: 89016								
Prep Date: 6/23/2022	Analysis Date: 6/24/2022	SeqNo: 3162505	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.1	51.1	141			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2206B35

30-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: ics-68296	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 68296		RunNo: 89028							
Prep Date: 6/22/2022	Analysis Date: 6/24/2022		SeqNo: 3161636		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.4	72.3	137			
Surr: BFB	1900		1000		191	37.7	212			

Sample ID: mb-68296	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 68296		RunNo: 89028							
Prep Date: 6/22/2022	Analysis Date: 6/24/2022		SeqNo: 3161637		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		86.6	37.7	212			

Sample ID: ics-68315	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 68315		RunNo: 89028							
Prep Date: 6/23/2022	Analysis Date: 6/24/2022		SeqNo: 3161660		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.9	72.3	137			
Surr: BFB	1900		1000		188	37.7	212			

Sample ID: mb-68315	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 68315		RunNo: 89028							
Prep Date: 6/23/2022	Analysis Date: 6/24/2022		SeqNo: 3161661		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		87.5	37.7	212			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2206B35

30-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: ics-68296	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68296		RunNo: 89028							
Prep Date: 6/22/2022	Analysis Date: 6/24/2022		SeqNo: 3161708		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.3	80	120			
Toluene	0.95	0.050	1.000	0	94.8	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.8	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.3	70	130			

Sample ID: mb-68296	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68296		RunNo: 89028							
Prep Date: 6/22/2022	Analysis Date: 6/24/2022		SeqNo: 3161709		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	70	130			

Sample ID: ics-68315	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68315		RunNo: 89028							
Prep Date: 6/23/2022	Analysis Date: 6/24/2022		SeqNo: 3161732		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.94	0.050	1.000	0	93.7	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.1	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.1	70	130			

Sample ID: mb-68315	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68315		RunNo: 89028							
Prep Date: 6/23/2022	Analysis Date: 6/24/2022		SeqNo: 3161733		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.83		1.000		83.0	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- 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



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: 2206B35 RcptNo: 1

Received By: Cheyenne Cason 6/22/2022 7:20:00 AM
Completed By: Cheyenne Cason 6/22/2022 9:23:23 AM
Reviewed By: jn 6/22/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

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

Checked by: [Signature]

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 5.1, Good, Not Present, [], [], []

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

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

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type) Excel

Turn-Around Time:

Standard Rush

Project Name:

ROY SWD #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy; Tomp Martinez
 On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 5.0 + 0.1 25.0 5.1

Container Type and # Preservative Type HEAL No. 2206B35

1x 4oz can ICE

ETH-3/1
 ETH-3/4
 ETH-3/8

EW-7
 EW-8
 EX-18A
 EX-13A
 EX-21A
 EX-23A
 EX-28A
 EW-18

Received by: W. Kennedy
 Date: 6/21/22
 Time: 0755

Relinquished by: W. Kennedy
 Date: 6/21/22
 Time: 0755

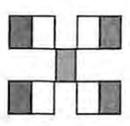
Received by: W. Kennedy
 Date: 6/21/22
 Time: 0755

Received by: W. Kennedy
 Date: 6/21/22
 Time: 0755

Received by: W. Kennedy
 Date: 6/21/22
 Time: 0755

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)	Remarks
6/15/22	1310	Soil	ETH-3/1	1x 4oz can	ICE	001	X	X	X	
	1316		ETH-3/4			002	X	X	X	
	1335		ETH-3/8			003	X	X	X	
6/20/22	1000	Soil	EW-7			004	X	X	X	
	1002		EW-8			005	X	X	X	
	1037		EX-18A			006	X	X	X	
	1039		EX-13A			007	X	X	X	
	1115		EX-21A			008	X	X	X	
	1043		EX-23A			009	X	X	X	
	1117		EX-28A			010	X	X	X	
	1140		EW-18			011	X	X	X	

Analysis Request



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 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.



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

July 01, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Roy SWD 3

OrderNo.: 2206C28

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/23/2022 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 in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2206C28**

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: ETH-4/4

Project: Roy SWD 3

Collection Date: 6/22/2022 9:42:00 AM

Lab ID: 2206C28-001

Matrix: SOIL

Received Date: 6/23/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2000	60		mg/Kg	20	6/28/2022 12:50:54 AM	68393
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/27/2022 3:59:01 PM	68344
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/27/2022 3:59:01 PM	68344
Surr: DNOP	122	51.1-141		%Rec	1	6/27/2022 3:59:01 PM	68344
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/25/2022 8:45:00 AM	68325
Surr: BFB	87.1	37.7-212		%Rec	1	6/25/2022 8:45:00 AM	68325
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/25/2022 8:45:00 AM	68325
Toluene	ND	0.049		mg/Kg	1	6/25/2022 8:45:00 AM	68325
Ethylbenzene	ND	0.049		mg/Kg	1	6/25/2022 8:45:00 AM	68325
Xylenes, Total	ND	0.098		mg/Kg	1	6/25/2022 8:45:00 AM	68325
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	6/25/2022 8:45:00 AM	68325

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation 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 **2206C28**

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: ETH-4/9

Project: Roy SWD 3

Collection Date: 6/22/2022 10:15:00 AM

Lab ID: 2206C28-002

Matrix: SOIL

Received Date: 6/23/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	770	61		mg/Kg	20	6/28/2022 1:03:18 AM	68393
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/27/2022 4:09:45 PM	68344
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/27/2022 4:09:45 PM	68344
Surr: DNOP	103	51.1-141		%Rec	1	6/27/2022 4:09:45 PM	68344
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/25/2022 9:05:00 AM	68325
Surr: BFB	93.7	37.7-212		%Rec	1	6/25/2022 9:05:00 AM	68325
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/25/2022 9:05:00 AM	68325
Toluene	ND	0.049		mg/Kg	1	6/25/2022 9:05:00 AM	68325
Ethylbenzene	ND	0.049		mg/Kg	1	6/25/2022 9:05:00 AM	68325
Xylenes, Total	ND	0.097		mg/Kg	1	6/25/2022 9:05:00 AM	68325
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	6/25/2022 9:05:00 AM	68325

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation 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 **2206C28**

Date Reported: 7/1/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: ETH-4/12

Project: Roy SWD 3

Collection Date: 6/22/2022 10:21:00 AM

Lab ID: 2206C28-003

Matrix: SOIL

Received Date: 6/23/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	170	60		mg/Kg	20	6/28/2022 1:15:43 AM	68393
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/27/2022 4:20:27 PM	68344
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/27/2022 4:20:27 PM	68344
Surr: DNOP	98.3	51.1-141		%Rec	1	6/27/2022 4:20:27 PM	68344
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/25/2022 9:25:00 AM	68325
Surr: BFB	88.0	37.7-212		%Rec	1	6/25/2022 9:25:00 AM	68325
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/25/2022 9:25:00 AM	68325
Toluene	ND	0.046		mg/Kg	1	6/25/2022 9:25:00 AM	68325
Ethylbenzene	ND	0.046		mg/Kg	1	6/25/2022 9:25:00 AM	68325
Xylenes, Total	ND	0.093		mg/Kg	1	6/25/2022 9:25:00 AM	68325
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	6/25/2022 9:25:00 AM	68325

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation 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#: 2206C28

01-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-68393	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68393	RunNo: 89045								
Prep Date: 6/27/2022	Analysis Date: 6/27/2022	SeqNo: 3164388	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68393	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68393	RunNo: 89045								
Prep Date: 6/27/2022	Analysis Date: 6/27/2022	SeqNo: 3164389	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2206C28

01-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: LCS-68344	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68344	RunNo: 89051								
Prep Date: 6/24/2022	Analysis Date: 6/27/2022	SeqNo: 3162989	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.5	64.4	127			
Surr: DNOP	4.4		5.000		87.0	51.1	141			

Sample ID: MB-68344	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68344	RunNo: 89051								
Prep Date: 6/24/2022	Analysis Date: 6/27/2022	SeqNo: 3162990	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.3	51.1	141			

Qualifiers:

- * Value exceeds Maximum Contaminant 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#: 2206C28

01-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: Ics-68296	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 68296	RunNo: 89028								
Prep Date: 6/22/2022	Analysis Date: 6/24/2022	SeqNo: 3161636	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		191	37.7	212			

Sample ID: mb-68296	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68296	RunNo: 89028								
Prep Date: 6/22/2022	Analysis Date: 6/24/2022	SeqNo: 3161637	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	870		1000		86.6	37.7	212			

Sample ID: Ics-68325	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 68325	RunNo: 89028								
Prep Date: 6/23/2022	Analysis Date: 6/25/2022	SeqNo: 3161684	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	1900		1000		193	37.7	212			

Sample ID: mb-68325	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68325	RunNo: 89028								
Prep Date: 6/23/2022	Analysis Date: 6/25/2022	SeqNo: 3161685	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	860		1000		86.2	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 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#: 2206C28

01-Jul-22

Client: EOG
Project: Roy SWD 3

Sample ID: Ics-68296	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68296		RunNo: 89028							
Prep Date: 6/22/2022	Analysis Date: 6/24/2022		SeqNo: 3161708				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		88.3	70	130			

Sample ID: mb-68296	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68296		RunNo: 89028							
Prep Date: 6/22/2022	Analysis Date: 6/24/2022		SeqNo: 3161709				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	70	130			

Sample ID: Ics-68325	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68325		RunNo: 89028							
Prep Date: 6/23/2022	Analysis Date: 6/25/2022		SeqNo: 3161756				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.4	80	120			
Toluene	0.92	0.050	1.000	0	91.7	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.2	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		84.5	70	130			

Sample ID: mb-68325	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68325		RunNo: 89028							
Prep Date: 6/23/2022	Analysis Date: 6/25/2022		SeqNo: 3161757				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		84.8	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- 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



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: 2206C28 RcptNo: 1

Received By: Juan Rojas 6/23/2022 7:20:00 AM

[Signature]

Completed By: Sean Livingston 6/23/2022 8:00:45 AM

[Signature]

Reviewed By: JR 6/23/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: KPG 6-23-22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: Date:
By Whom: Via: [] eMail [] Phone [] Fax [] In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.7, Good, [], [], []

ATTACHMENT 3 – NMOCD CORRESPONDENCE

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, April 21, 2022 2:23 PM
To: Tina Huerta <tina_huerta@eooresources.com>
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 56066

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 (En Tina Huerta for EOO 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#) nAPP2111046250.

with the following conditions:

- **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.

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



From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Thursday, May 12, 2022 10:00 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; ahowell@pvt.n.net; austin@atkinseng.com
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@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 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: Thursday, May 19, 2022 9:58 AM
To: [Robert Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us); Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; [Jennifer Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us); Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; 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>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534 & nAPP2111046250) Sampling Notification

Good Morning,

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

Roy SWD 3
7-19S-25E; Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534 & nAPP2111046250

Sampling will begin at 7:00 a.m. on Monday, May 23, 2022 and will be continuous through Friday, May 27, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, May 25, 2022 3:59 PM
To: Robert Hamlet <robert.hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; 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>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Afternoon,

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

Roy SWD 3
7-19S-25E; Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 7:00 a.m. on Tuesday, May 31, 2022 and continuous through Friday, June 3, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



From: Tina Huerta
 Sent: Thursday, June 2, 2022 8:56 AM
 To: 'Jan & 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>
 <Robert.Hamlet@state.nm.us>
 Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
 Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

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

Roy SWD 3
 7-19S-25E; Eddy County, NM
 2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 7:00 a.m. on Monday, June 6, 2022 and continuous through Friday, June 10, 2022.

Thank you,
 Tina Huerta
 Regulatory Specialist
 Direct: 575.748.4168
 Cell: 575.703.3121
 Email: tina_huerta@eogresources.com



From: Tina Huerta <Tina_Huerta@eogresources.com>
 Sent: Thursday, June 9, 2022 10:14 AM
 To: Ian & 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>; BODEE EUDY <BODEE_EUDY@eogresources.com>
 Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

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

Roy SWD 3
 7-19S-25E; Eddy County, NM
 2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 7:00 a.m. on Monday, June 13, 2022 and continue through Friday, June 17, 2022.

Thank you,
 Tina Huerta
 Regulatory Specialist
 Direct: 575.748.4168
 Cell: 575.703.3121
 Email: tina_huerta@eogresources.com



From: Tina Huerta <Tina_Huerta@eogresources.com>
 Sent: Thursday, June 16, 2022 9:50 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>
 <Robert.Hamlet@state.nm.us>
 Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
 Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

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

Roy SWD 3
 P-7-19S-25E; Eddy County, NM
 2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 10:00 a.m. on Monday, June 20, 2022 through Friday, June 24, 2022.

Thank you,

Tina Huerta
 Regulatory Specialist
 Direct: 575.748.4168
 Cell: 575.703.3121
 Email: tina_huerta@eogresources.com



From: Tina Huerta <Tina_Huerta@eogresources.com>
 Sent: Wednesday, June 29, 2022 4:24 PM
 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>; BODEE EUDY <BODEE_EUDY@eogresources.com>
 Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Afternoon,

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

Roy SWD 3
 P-7-19S-25E
 Eddy County, NM
 2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 7:00 a.m. on Tuesday, July 5, 2022 and continue through Friday, July 8, 2022.

Thank you,

Tina Huerta
 Regulatory Specialist
 Direct: 575.748.4168
 Cell: 575.703.3121
 Email: tina_huerta@eogresources.com



From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Thursday, July 7, 2022 9:10 AM
To: [Robert Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us); mike.bratcher@state.nm.us; Jennifer.Nobui@state.nm.us; jocelyn.harimon@state.nm.us; ahowell@pvt.net; austin@atkinseng.com
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD #3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling notification

Good morning,

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

Roy SWD #3
7-19S-25E; Eddy County, NM
2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 8:00a.m on Monday, July 11, 2022 and continue through Friday, July 15, 2022.

Thank you,

Miriam Morales

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 127537

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 127537
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Thank you for the remediation plan update. OCD requests EOG/Ranger Environmental set up a Teams meeting after Thanksgiving to discuss incident and path forward.	11/16/2022