



**SITE STATUS UPDATE AND
PROPOSED REMEDIATION PLAN**

**TANK BATTERY AREA
2RP-4576 & 2RP-5094**

**ROY SWD #3
UNIT P, SECTION 7, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.67059, -104.51773**

PREPARED FOR:

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

PREPARED BY:

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NOVEMBER 1, 2022

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FORM C-141

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EDDY COUNTY, NEW MEXICO
32.67059, -104.51773
RANGER REFERENCE NO. 5375**

1.0 INTRODUCTION

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), formerly consisted of a saltwater disposal well, a tank battery with an earthen containment berm, pump houses and associated equipment. An earthen berm surrounded 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. Reclamation efforts to decommission the southern portion of the pad have been completed. In April and May of 2022, plugging and abandonment of the on-site disposal well was completed. Additionally, the on-site tank battery and associated equipment has been taken out-of-service, decommissioned, and removed from the Site.

On January 4, 2018, a release was discovered at the Site due to a failure in the PVC waterleg line that connects the gun barrel to the water tank. The impacted area was approximately 90 feet (ft) by 20 ft inside of the battery berm to the north of the tanks. Initial response activities included source elimination and site stabilization activities, which recovered approximately 5 barrels (bbls) of fluid. The release and initial response activities were reported by EOG to New Mexico Oil Conservation Division (NMOCD) on Form C-141, dated January 18, 2018. NMOCD assigned Remediation Permit RP-4576 to the release. As part of the initial action, the visually impacted area of the release on the north side of the battery was excavated with the removal of impacted material resulting in an approximate 40 ft by 20 ft by 4 ft excavation which remained open for some time.

Souder, Miller and Associates (SMA) drilled two soil borings, L1 and L2, to 4 ft and 5 ft below ground surface (bgs), respectively, on January 23, 2018. Samples were collected at approximately 1-foot intervals and selected samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons (TPH) and chlorides. Three samples were tested for TPH which ranged in concentration from 540 mg/kg (L1 at 1 ft) to 20,240 mg/kg (L1 at 3 ft). The lone L2 sample (L2 at 5 ft) had a TPH concentration of 8,950 mg/kg. Chloride concentrations in the shallow boring soil samples ranged from 1,000 mg/kg to 13,000 mg/kg in L1 and from 720 mg/kg to 21,000 mg/kg in L2. The chloride concentrations decreased with depth. It was at some point after the shallow borings were drilled and sampled the aforementioned excavation was conducted.

On November 13, 2018, another release was discovered at the Site due to failure on the line that connects the gun barrel to the produced water tank. The impacted area was approximately 20 ft by 150 ft and was confined within the battery's earthen containment. Initial response activities were conducted by EOG which included source elimination and site stabilization, recovering 120 bbls of fluid. The release and initial response activities were reported by EOG to NMOCD on Form C-141, dated November 28, 2018. NMOCD assigned Remediation Permit RP-5094 to the release.

A third soil boring, L3, was drilled to a depth of 30 ft bgs on December 10, 2018. Laboratory results documented BTEX and total TPH concentrations below laboratory reporting levels in the 15 to 27 ft bgs range; however, the chloride concentrations in this depth interval ranged from 1,420 mg/kg to 2,440 mg/kg. The SMA report also indicates that boring L2 was apparently deepened during October of 2018 and indicates samples were collected at depths of 10, 12, 14 and 17 ft bgs. Samples analyzed for BTEX were below the laboratory reporting levels and total TPH ranged from nondetect at 10 ft bgs to 11 mg/kg at 17 ft bgs. Chloride concentrations analyzed over the same depth interval ranged from 340 mg/kg at 12 ft bgs to 1,410 mg/kg at 17 ft bgs.

SMA returned to the Site in April 2019 to conduct assessment activities in response to the second release. A sonic drill rig was mobilized into the tank battery and re-entered sample locations L1, L2 and L3 (becoming then L1R, L2R and L3R). The borings were advanced to total depths of 70' (L1R) to 75' (L2R and L3R). Samples were collected at 5-foot intervals and field screened for chlorides. Selected samples were laboratory analyzed for BTEX, TPH and chlorides. Analytical data presented in SMA's June 13, 2019 report (*Table 3: Summary of Sample Results*) inexplicably omits results for the 5 ft to 25 ft bgs range for borings L1R and L3R. Below is a summary of the field and laboratory analytical data for the April 2019 soil borings:

- The BTEX and TPH results for the April 2019 soil borings were all nondetectable.
- Laboratory chloride concentrations in L1R ranged from 3,100 mg/kg at 35 ft to 530 mg/kg at 40 ft and 410 mg/kg at 60 ft bgs, with only minimal field screen results below 60 feet to the total depth of 70 feet bgs.
- The highest chloride concentration in L2R was 10,000 mg/kg at 25 ft bgs with 1,700 mg/kg being reported at both 0 ft and 20 ft bgs. Below 25 feet bgs, the field screens significantly declined with only minimal readings being noted below 35 feet bgs to the boring total depth of 75 feet bgs.
- The highest chloride concentration in L3R was 220 mg/kg at 30 ft bgs. Below this depth laboratory chloride concentrations were documented to decrease, and only minimal field screen results were documented to the boring total depth of 75 feet bgs.
- No groundwater was reported as being encountered to the boring total depths of 70'-75' bgs.

During September 3-4, 2019, GHD Services Inc. (GHD), on behalf of EOG, conducted additional assessment of the tank battery area. Eleven test pits (TP-1 through TP-8 and SWE, SWW and SWNC) were installed within the bermed area of the tank battery and a total of 21 soil samples were analyzed to assess the horizontal and vertical extents of the soil impacts. Further assessment was conducted in the northeast portion of the tank battery where the releases had

occurred. This included test pits (TP-1 and TP-2) at the approximate locations where the L1R and L2R borings were drilled in order to obtain additional TPH data. Test pit TP-3 was excavated beneath where the former easternmost produced water storage tank was located. Test pits SWE, SWW and SWNC were excavated at the approximate edges of the SMA excavation to confirm SMA's December 2018 sidewall sample results. Test pits TP-4 through TP-8 were installed within the remainder of the bermed tank battery area. The laboratory analytical results documented elevated TPH and/or chloride impacts in all of the installed test pits with the exception of test pits TP-4 and TP-8 which were located in the southern portion of the tank battery bermed area.

EOG subsequently retained Ranger Environmental Services, Inc. (Ranger) to oversee the remaining site assessment and remediation activities as Ranger is already conducting other assessment and remediation activities at the former Roy SWD #3 facility, on the southern half of the well pad and east of the well pad around a pipeline right-of-way (NMOCD Incident #nAPP2111046250), and in the northern on-pad area (NMOCD Incident # nAPP2123047534).

On May 18, 2022, Ranger mobilized to the Site with HCl Drilling (HCl) to conduct additional vertical soil delineation activities in the tank battery area to confirm the depth of the soil impacts in the release source area and the absence of any groundwater impacts. On August 22, 2022 and September 23, 2022, Ranger also conducted additional horizontal delineation activities through the installation and sampling of test excavations. This report has been prepared to provide a summary of the May-August 2022 assessment activities, as well as site characterization information, proposed closure criteria, and a conceptual site remediation plan. A copy of the Form C-141 Release Notifications, as well as the Site Assessment/Characterization and Remediation Plan sections of Form C-141, are attached.

A Topographic Map and Area Map noting the location of the subject property and surrounding areas, and multiple site maps illustrating the Site features, sampling locations, and proposed activities are provided in the Figures section.

2.0 SITE CHARACTERIZATION

2.1 Depth-to-Groundwater

To determine the depth-to-groundwater in the vicinity of the Site, data available from the U.S. Geological Survey (USGS) and the New Mexico Office of the State Engineer (NMOSE) was reviewed. Based upon the reviewed information, recent (<25-year-old) water well information within one half-mile of the site is not available.

Attachment 1 includes the area USGS and NMOSE water well data and locations. In the area ranging between approximately 0.7 - 2 miles from the subject site, the depth to water was reported as ranging from approximately 72' bgs to 265' bgs. The depth to water for the wells located closest to the subject site ranged between 72' – 97' bgs. It should also be noted that during the on-site drilling of soil borings L1R through L3R, no groundwater was reported to have been encountered to the boring terminal depths of 70'-75' bgs.

Since a significant watercourse is located within 300 feet of the subject site, the site release will be treated as if it occurred less than 50 feet to ground water. Since this will result in the usage of the most stringent site cleanup levels, Ranger believes that the available depth to groundwater data is satisfactory, and that the depth to groundwater can reasonably be assumed to be greater than 75' bgs.



2.2 Wellhead Protection Area

Based upon the USGS and NMOSE information, no consistent known water sources were identified within a half-mile of the Site.

The Site and impacted area are outside of the FEMA 100-year flood plain and fall in the area of minimal flood hazard.

The Site is noted to be in an area of "Medium Karst" probability.

2.3 Distance to Nearest Significant Watercourse

The closest significant watercourse, "Fourmile Draw" is located approximately 100 feet from the western facility pad boundary. Upon review of the National Wetland Inventory, "Fourmile Draw" is mapped as a wetland feature. The feature is classified as a R4SBJ, which is defined as a riverine, intermittent, streambed and intermittently flooded.

The presence of this significant watercourse located within 300 feet of the subject site will require the site release to be treated as if it occurred less than 50 feet to ground water in Table 1 of 19.15.29.12 NMAC.

2.4 Closure Criteria

Based upon the site characterization details (within 300' of a significant watercourse and a mapped wetland), and per NMAC 19.15.29.12, the Site will be remediated to the Table 1 19.15.29.12 NMAC (groundwater ≤ 50 feet) criteria, as well as the 19.15.29.13 NMAC Restoration, Reclamation and Re-Vegetation (Soils 0'-4') criteria. The proposed closure criteria are detailed below:

PROPOSED SITE CLOSURE CRITERIA

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

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

3.0 MAY 18, 2022 VERTICAL SOIL DELINEATION ACTIVITIES

3.1 Assessment Methodologies

On May 18, 2022, Ranger mobilized to the Site with HCI Drilling (HCI) to conduct vertical soil delineation activities in the former tank battery area to confirm the depth of the soil impacts in the

release source area and to ensure that groundwater is not threatened or affected. The soil borings were drilled and sampled using air rotary drilling techniques. Soil borings SB-1 and SB-2 were drilled in the northeastern portion of the former tank battery area within the former 40'x20'x4'-deep excavated area. Soil boring SB-3 was drilled in the central portion of the former tank battery to the west of the former excavation area. The soil borings were advanced to terminal drilling depths of 30 to 50 feet bgs. No groundwater was encountered.

Soil samples were continuously collected and monitored during the drilling process, and each soil sample was inspected and described by the on-site Ranger field geologist. The soils were generally field screened at one-foot intervals with an organic vapor monitor (OVM) and field chloride titration kit. The lithologic descriptions, field chloride readings and OVM readings are presented on the attached soil boring logs.

Multiple soil samples were collected from each soil boring for laboratory analysis, primarily from the intervals at and near the boring terminal depths in order to confirm the vertical extent of the soil closure criteria exceedances. Below is a discussion of the field chloride titration results and a summary of the soil samples collected from each boring:

- **SB-1:** In soil boring SB-1, the field chloride titration results began declining below the soil closure criteria at an approximate depth of 29' bgs, and no field chloride readings above the closure criteria were encountered beyond a depth of 35' bgs. As such, the boring was terminated at a depth of 40' bgs. One soil sample was collected for laboratory analysis at a depth of 23' bgs, which was the interval containing the highest field chloride result (1,050 ppm) below 6' bgs. Three soil samples were collected from the base of the boring at depths of 38', 39' and 40' bgs to confirm that the vertical extent of impact in this boring had been defined.
- **SB-2:** In soil boring SB-2, significantly elevated field chloride readings up to 3,000(+) ppm were encountered to a depth of 29' bgs. Due to poor recovery, no field readings were collected from 31'-39' bgs. The field chloride titration results began declining below the soil closure criteria at an approximate depth of 43' bgs, and no field chloride readings above the closure criteria were encountered beyond a depth of 46' bgs. As such, the boring was terminated at a depth of 50' bgs. One soil sample was collected for laboratory analysis at a depth of 29' bgs, which was one of the intervals containing the highest field chloride results below 6' bgs. Four soil samples were collected from the base of the boring at depths of 47', 48', 49' and 50' bgs to confirm that the vertical extent of impact in this boring had been defined.
- **SB-3:** In soil boring SB-3, there were no elevated field chloride titration results to the terminal boring depth of 30' bgs. Soil samples were collected for laboratory analysis at depths of 4', 14', 29' and 30' bgs.

The soil samples were collected using new nitrile gloves and were containerized in sterile, laboratory-supplied containers. The sample jars were placed into multiple new Ziploc® bags and were immediately stored in a sample shuttle full of ice. The soil samples collected for laboratory analysis were subsequently submitted to Hall Laboratory in Albuquerque, New Mexico for analysis of TPH using EPA Method 8015; 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.

The attached “*Sample Location Map*” illustrates the locations of the May 2022 soil borings. The soil sample analytical results are summarized in the attached soil analytical table. A copy of the laboratory analytical report is also attached.

3.2 Assessment Results

The May 18, 2022 soil boring sample analytical results documented nondetectable BTEX and TPH concentrations in all three of the soil borings. Below is a summary of the soil chloride analytical results for each of the three soil borings and a comparison to the proposed site soil chloride closure criteria (600 mg/Kg):

- **SB-1:** In soil boring SB-1, the sample collected for laboratory analysis at a depth of 23’ bgs, which was the interval containing the highest field chloride result below 6’ bgs, was documented to contain a chloride concentration of 1,400 mg/kg which exceeds the proposed closure criteria. The three soil samples collected from the base of the boring at depths of 38’, 39’ and 40’ bgs confirmed that the vertical extent of impact in this boring had been defined. The 38’ sample had a minor exceedance of the proposed site closure criteria (670 mg/Kg chloride); however, the samples collected at depths of 39’ and 40’ were both documented to contain chloride concentrations below the closure criteria. As such, the maximum extent of soil impact in this boring was documented to be approximately 38’ bgs.
- **SB-2:** In soil boring SB-2, the soil sample collected for laboratory analysis at a depth of 29’ bgs, which was one of the intervals containing the highest field chloride results below 6’ bgs, was documented to contain 5,200 mg/Kg chloride which is significantly in excess of the proposed closure criteria. The four soil samples collected from the base of the boring at depths of 47’, 48’, 49’ and 50’ bgs confirmed that the vertical extent of impact in this boring had been defined. The 47’ sample had a minor exceedance of the proposed site closure criteria (750 mg/Kg chloride); however, the samples collected at depths of 48’, 49’ and 50’ were documented to contain chloride concentrations below the closure criteria. As such, the maximum extent of soil impact in this boring was documented to be approximately 47’ bgs.
- **SB-3:** In soil boring SB-3, all soil analytical results were found to be below the proposed site closure criteria.

In summary, soil borings SB-1 and SB-2, which were installed in the northeastern portion of the former tank battery area within the former 40’x20’x4’-deep excavated area, were found to contain soil chloride impacts in excess of the proposed site closure criteria. No impacts exceeding the proposed site closure criteria were documented in soil boring SB-3, located just west of the former 40’x20’x4’-deep excavated area.

The maximum vertical extent of the soil impacts in the release source area was documented to be approximately 47’ bgs. As such, the vertical delineation activities documented that the soil impacts do not appear to pose a threat to the underlying groundwater. As summarized in Section 2.1, the depth to water for the wells located closest to the subject site ranged between 72’ – 97’ bgs, and during the on-site drilling of soil borings L1R through L3R, no groundwater was reported to have been encountered to the boring terminal depths of 70’-75’ bgs.

4.0 AUGUST AND SEPTEMBER, 2022 HORIZONTAL SOIL DELINEATION ACTIVITIES

On August 22-23, 2022, Ranger personnel and representatives for EOG returned to the Site to complete additional horizontal soil delineation activities. As summarized in Section 1.0, above, the September 3-4, 2019 GHD test pit assessment activities had documented elevated TPH and/or chloride impacts in all of the installed test pits within the tank battery bermed area with the exception of test pits TP-4 and TP-8 which were located in the southern portion of the tank battery bermed area. As such, eight (8) excavation test holes (RTP-1 thru RTP-8) were completed along the western, northern and eastern boundaries of the former tank battery bermed area.

During the test pit installation process, the excavated soils were screened with an OVM and a field chloride titration kit to assist in evaluating the soil conditions and to determine appropriate sample locations and depths. The test pit excavation soils were screened at the surface and at one-foot intervals thereafter until reaching a minimum terminal depth of 6' bgs or until the field chloride readings were below 600 mg/kg. The deepest test hole was RTP-2 which was advanced to a terminal depth of 11' bgs.

Soil samples were subsequently collected from each test excavation. For those excavations in which elevated field chloride readings were obtained, samples were collected at depths of 1' bgs, the zone(s) exhibiting the highest field chloride reading(s), and at the terminal excavation depths. For those excavations in which no elevated field chloride readings were obtained, samples were collected at depths of 1' bgs and at the terminal excavation depths. It should be noted that there were no elevated field OVM readings or other field indications of hydrocarbon impact (e.g. – staining, odor, etc.) noted during the test excavation installation process.

The soil samples collected for laboratory analysis were subsequently submitted to Hall Laboratory in Albuquerque, New Mexico for analysis of TPH using EPA Method 8015; 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.

The soil analytical results documented elevated (>600 mg/Kg) chloride concentrations in select samples collected from test holes RTP-2 and RTP-6. It should be noted that the terminal depth samples collected from these two test pits at depths of 11' bgs and 7' bgs, respectively, contained relatively minor chloride concentrations (610-670 mg/Kg) at their terminal depths which were slightly higher than their field chloride results which were below 600 mg/Kg.

Based upon the August 2022 assessment results, additional horizontal delineation activities were conducted at the subject site on September 23, 2022. Two additional test pits were installed to the north and northwest of RTP-2, and one additional test pit was installed to the north of RTP-6. The additional test pits were field screened and sampled in general accordance with the above-described methodologies utilized on August 22-23, 2022. Due to the absence of any elevated field readings, the test pits were only advanced to a terminal depth of 4' bgs.

The soil analytical results for the September 23, 2022 samples were all found to be below the site closure criteria with the exception of a relatively minimal TPH concentration (156 mg/Kg) reported for soil sample RTP-6N/1 which was collected at one foot bgs. Since there were no field indications of a potential contaminant impact (no staining, odor, or elevated OVM readings) at this location, Ranger considers this result as being potentially suspect; however, as noted below, the exceedance will be addressed under the site Remediation Plan (including both the delineation and remediation of this area).

The attached "*Sample Location Map*" illustrates the locations of the August-September 2022 test holes. The soil sample analytical results are summarized in the attached soil analytical table. Copies of the laboratory analytical reports are attached.

5.0 REMEDIATION PLAN

Since the vertical soil delineation activities documented that the site soil impacts do not appear to pose any imminent threat of impact to the underlying groundwater, the proposed remediation plan for the subject site is to request a variance to NMAC 19.15.29.12 in order to excavate and dispose of all soils which contain exceedances of the proposed site closure criteria in the 0'-6' bgs depth interval, and to place a geosynthetic clay liner (GCL) over any remaining soils below 6' bgs which contain exceedances of the site closure criteria. The remediation plans for the northern on-pad area and the southern half of the well pad and east of the well pad around a pipeline right-of-way (NMOCD Incident Nos. nAPP2123047534 and nAPP2111046250) contained these same provisions and the plans have been approved by the NMOCD.

All soils in the former tank battery area which contain exceedances of the proposed site closure criteria and that are within the 0'-6' bgs depth interval will be excavated and disposed at an authorized off-site disposal facility. Areas of BTEX and TPH concentrations above the Table 1 Criteria at a depth of 6' bgs, encountered during the confirmation sampling process, will be over-excavated until concentrations are confirmed be within the Table 1 Criteria via the proposed confirmation sampling methods detailed below. Additional areas of elevated chloride concentrations may be excavated deeper than 6' bgs depending upon the encountered site conditions. Any remaining soils below 6' bgs which contain exceedances of the site closure criteria for chloride are proposed to be covered with a geosynthetic clay liner (GCL) as a variance to NMAC 19.15.29.12. Prior to the liner placement, the excavation base will be prepared according to manufacturer's specifications. Subsequent to the liner placement, the excavation will be backfilled with clean fill material.

The attached "*Proposed Remediation Map*" illustrates the approximate boundaries of the areas at the site which exceed the site closure criteria and require remediation. It should be noted that the boundaries of the proposed remediation area may be subject to change if field conditions warrant. The proposed remediation area may potentially be expanded based upon the results of the proposed field screening and cleanup confirmation sampling activities. The proposed remediation area also does not include any additional benching and shoring areas that may be necessary for safety reasons or as field conditions warrant.

During the performance of the site excavation activities, Ranger will utilize an OVM and field chloride titration kit to guide the excavation boundaries. Upon reaching excavation limits which appear to be within the site closure criteria, cleanup confirmation sampling activities will be conducted. Excavation sidewall samples are proposed to be collected in accordance with NMAC 19.15.29.12, as five-part composite samples, with each sample representing no more than 200 square feet. The excavation base samples are proposed to be collected as five-part composite samples, with each sample representing no more than 400 square feet. Each cleanup confirmation soil sample collected for laboratory analysis will be analyzed for TPH using EPA Method 8015; BTEX using EPA Method 8021; and, total chloride using EPA Method 300.

The attached "*Proposed Remediation Map*" illustrates the approximate area to be excavated to a depth of 6' bgs and covered with the geosynthetic clay liner. Based on the proposed excavation

boundaries and depth, it is anticipated that approximately 1,500 cubic yards of soil will be excavated and disposed.

Following placement of the GCL liner, the excavated areas will be backfilled to grade with clean fill material of similar type to that which was removed. The location will then be re-vegetated during the subsequent facility pad reclamation efforts.

Upon approval of the proposed remediation plan, all field activities will be scheduled as soon as reasonably possible. It is anticipated that the proposed remedial operations and cleanup confirmation soil sampling activities can be completed within 120 days of initiation. If for any reason the proposed activities cannot be completed within this timeframe, the NMOCD will be updated and provided with a revised schedule. Appropriate notification to the NMOCD will also be provided prior to the performance of the cleanup confirmation soil sampling activities.

6.0 REPORTING

Upon completion of the remedial excavation, liner installation and backfilling activities at the Site, a C-141 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

NM OIL CONSERVATION

ARTESIA DISTRICT

State of New Mexico
Energy Minerals and Natural Resources

JAN 19 2018

Form C-141
Revised April 3, 2017Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505Submit 1 Copy to appropriate District Office in
conformance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action
OPERATOR

NAB1801934458

☒ Initial Report ☐ Final Report

Name of Company EOG Y Resources, Inc.	Contact Chase Settle
Address 104 S. 4 th Street Artesia NM 88210	Telephone No. 575-748-1471
Facility Name Roy #3 SWD	Facility Type SWD

Surface Owner Private	Mineral Owner Private	API No. 30-015-26562
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LOCATION OF RELEASE

Unit Letter P	Section 7	Township 19S	Range 25E	Feet from the 810	North/South Line South	Feet from the 660	East/West Line East	County Eddy
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Latitude 32.6705933 Longitude -104.5177307 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 6 B/PW	Volume Recovered 5 B/PW
Source of Release Pipeline	Date and Hour of Occurrence 1/4/2018; 8:00 AM	Date and Hour of Discovery 1/4/2018; 8:00 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.*

There was a failure in the pvc waterleg line that connects the gunbarrel to the water tank. A vacuum truck was called to collect all free standing fluids and a backhoe contracted to remove all visually impacted soils.

Describe Area Affected and Cleanup Action Taken.*

The impacted area was approximately 90 feet by 20 feet inside of the battery berm to the north of the produced water tanks. Vertical and horizontal delineation samples will be taken and analysis ran for TPH, BTEX and chlorides. If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 10) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. **Depth to Ground Water: <100' (90', Section 7, T19S, R25E, per NMOSE, USGS), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Chase Settle</i>	OIL CONSERVATION DIVISION	
Printed Name: Chase Settle	Signed By <i>Mike [Signature]</i>	
Title: Rep Safety & Environmental II	Approved by Environmental Specialist:	
E-mail Address: chase_settle@eogresources.com	Approval Date: <i>1/11/18</i>	Expiration Date: <i>N/A</i>
Date: January 18, 2018	Conditions of Approval: <i>See Attached</i>	Attached <input type="checkbox"/> <i>2 RP-4576</i>
Phone: 575-748-4171		

* Attach Additional Sheets If Necessary

1/18/18 AB

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 1/19/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4576 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 2/19/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3465

jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Friday, January 19, 2018 8:10 AM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD
Cc: Bob Asher; Heather Patterson; Austin Weyant
Subject: C-141 Initial Roy #3 SWD
Attachments: C-141_Initial Roy #3 SWD.pdf

Please find attached the C-141 Initial for the below listed location.

Roy #3 SWD
30-015-26562
Sec. 7, T19S-R25E
Eddy County, New Mexico

Thank you,

Chase Settle, M.S.
Rep Safety & Environmental II

EOG Resources
105 S. 4th Street
Artesia, NM 88210
575-748-4171 (Office)
575-703-6537 (Cell)



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1834454137
District RP	2RP-5094
Facility ID	
Application ID	pAB1834453495

Release Notification

Responsible Party

Responsible Party EOG Y Resources, Inc.	OGRID 25575
Contact Name Chase Settle	Contact Telephone 575-748-4171
Contact email chase_settle@eogresources.com	Incident # (assigned by OCD)
Contact mailing address 104 S. 4 th	

Location of Release Source

Latitude 32.6705933 Longitude -104.5177307
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Roy #3 SWD	Site Type
Date Release Discovered 11/13/18	API# 30-015-26562

Unit Letter	Section	Township	Range	County
P	7	19S	25E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 190	Volume Recovered (bbls) 120
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Coupling between 2 pvc nipples failed on the line between gun barrel and produced water tank.

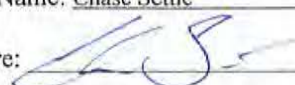

State of New Mexico
Oil Conservation Division

Incident ID	NAB1834454137
District RP	2RP-5094
Facility ID	
Application ID	pAB1834453495

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No **	If YES, for what reason(s) does the responsible party consider this a major release? ** ** Operator failed to supply the answer to this question regarding the major release. <i>AB</i>
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? ** ** Operator failed to supply the answer to these questions. <i>AB</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: <u>Chase Settle</u>	Title: <u>Rep Safety & Environmental II</u>
Signature: <u></u>	Date: <u>11-28-18</u>
email: <u>chase_settle@eogresources.com</u>	Telephone: <u>575-748-4171</u>
OCD Only	
Received by: <u></u>	Date: <u>12/10/2018</u>

Incident ID	nAB1801936658
District RP	2RP-4576
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>75'</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAB1801936658
District RP	2RP-4576
Facility ID	
Application ID	

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Printed Name: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 02/03/2023

email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

Incident ID	nAB1801936658
District RP	2RP-4576
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.

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Printed Name: Chase Settle

Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 02/03/2023

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: _____

Incident ID	nAB1834454137
District RP	2RP-5094
Facility ID	
Application ID	

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State of New Mexico
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Page 4

Incident ID	nAB1834454137
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Printed Name: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 02/03/2023

email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Jocelyn Harimon Date: 02/03/2023

Incident ID	nAB1834454137
District RP	2RP-5094
Facility ID	
Application ID	

Remediation Plan

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

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- ☒ Estimated volume of material to be remediated
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- ☐ Extents of contamination must be fully delineated.
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Printed Name: Chase Settle

Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 02/03/2023

email: Chase_Settle@eogresources.com

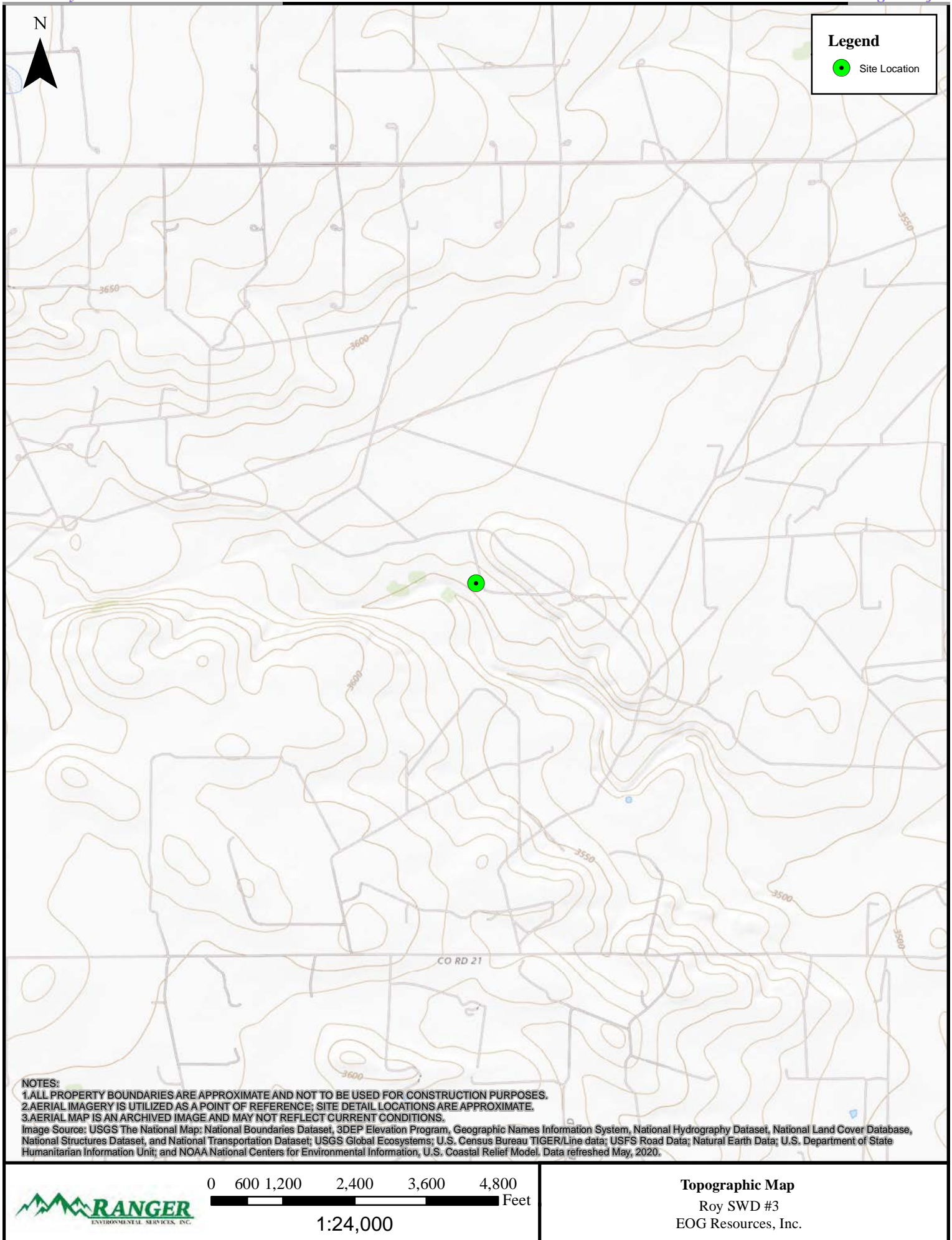
Telephone: 575-748-1471

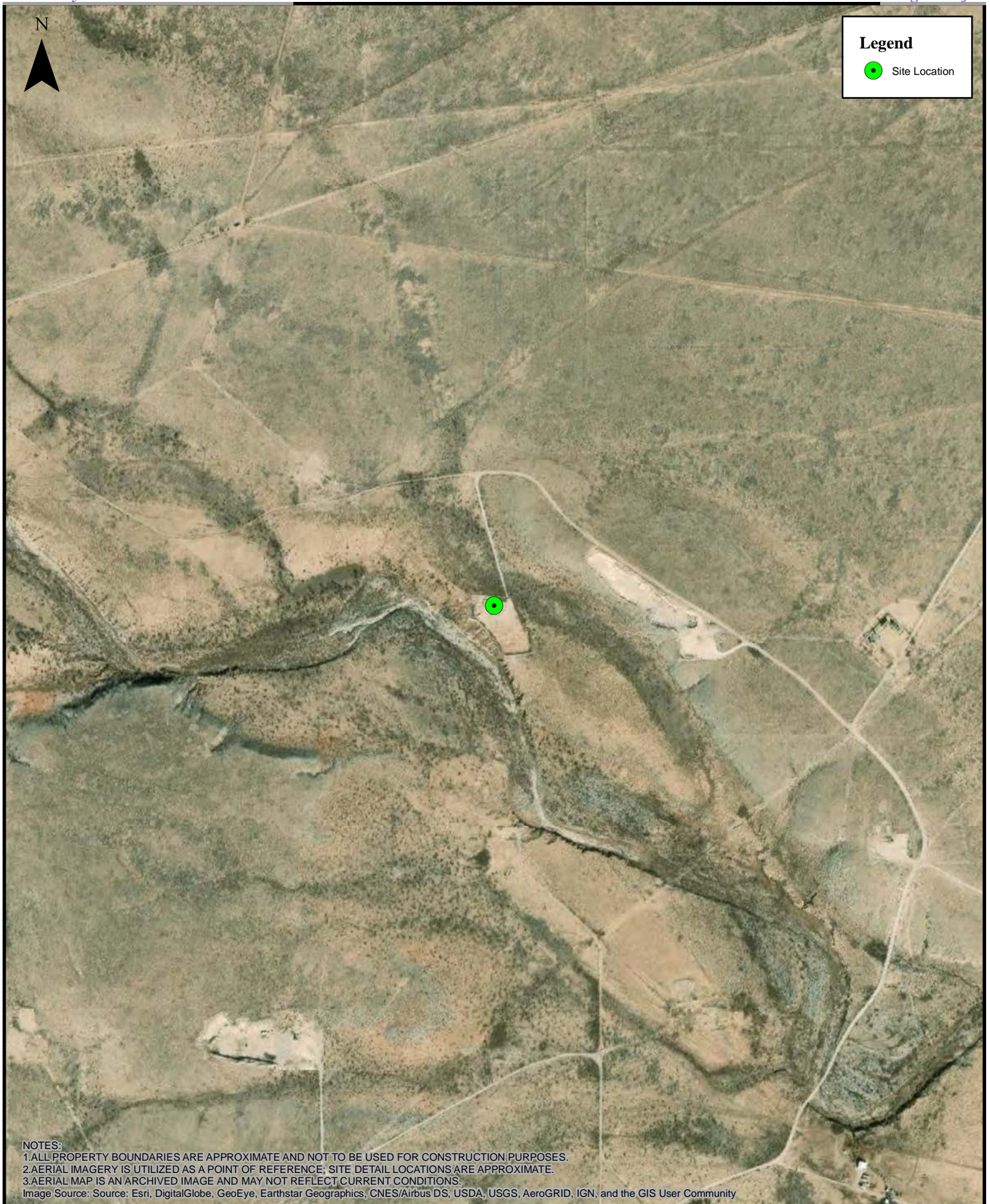
OCD OnlyReceived by: Jocelyn Harimon Date: 02/03/2023☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

FIGURES

- Topographic Map**
 - Area Map**
- National Wetland Inventory Map**
 - FEMA Floodplain Map**
 - Karst Topography Map**
 - Sample Location Map**
- Proposed Remediation Map**

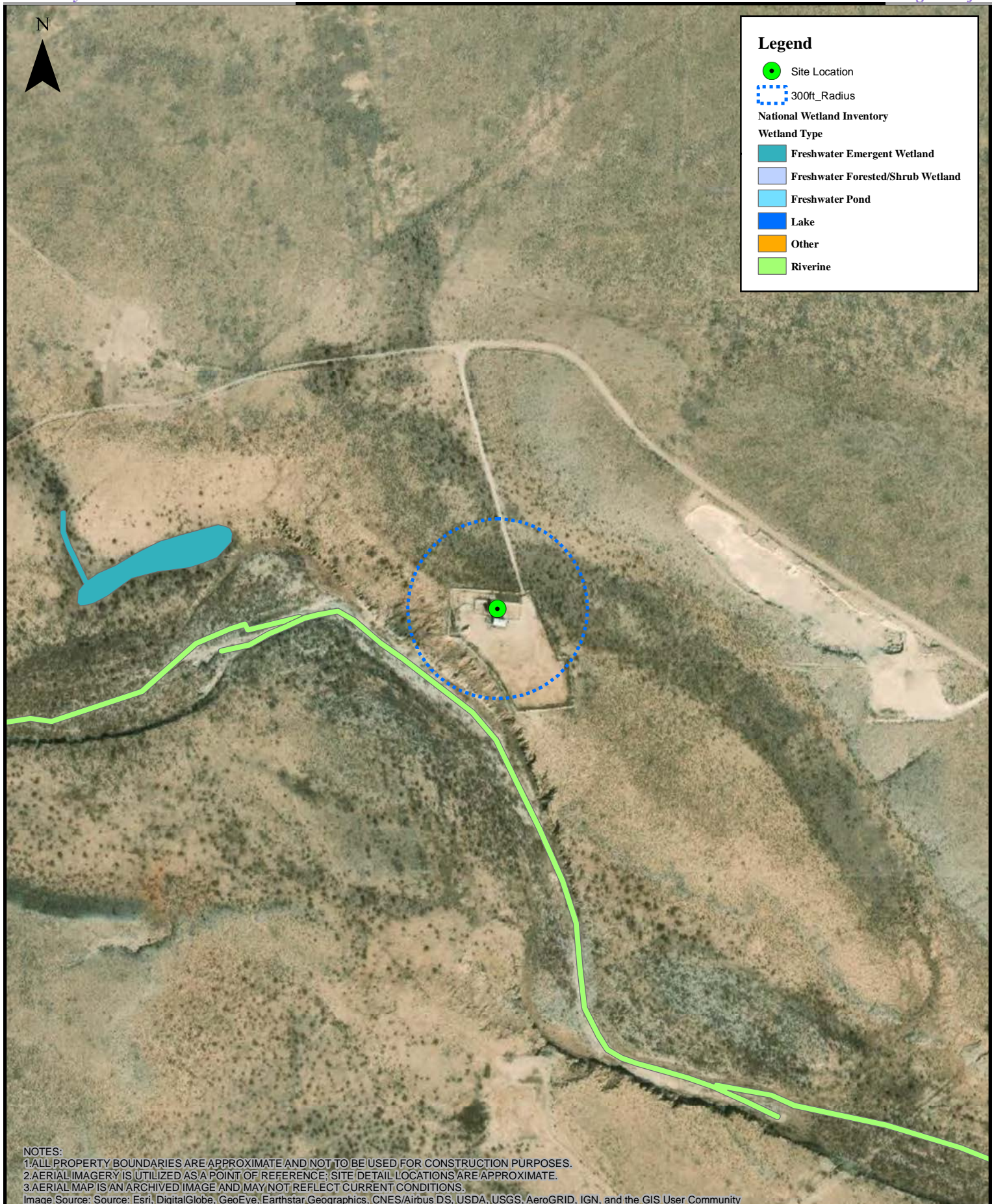




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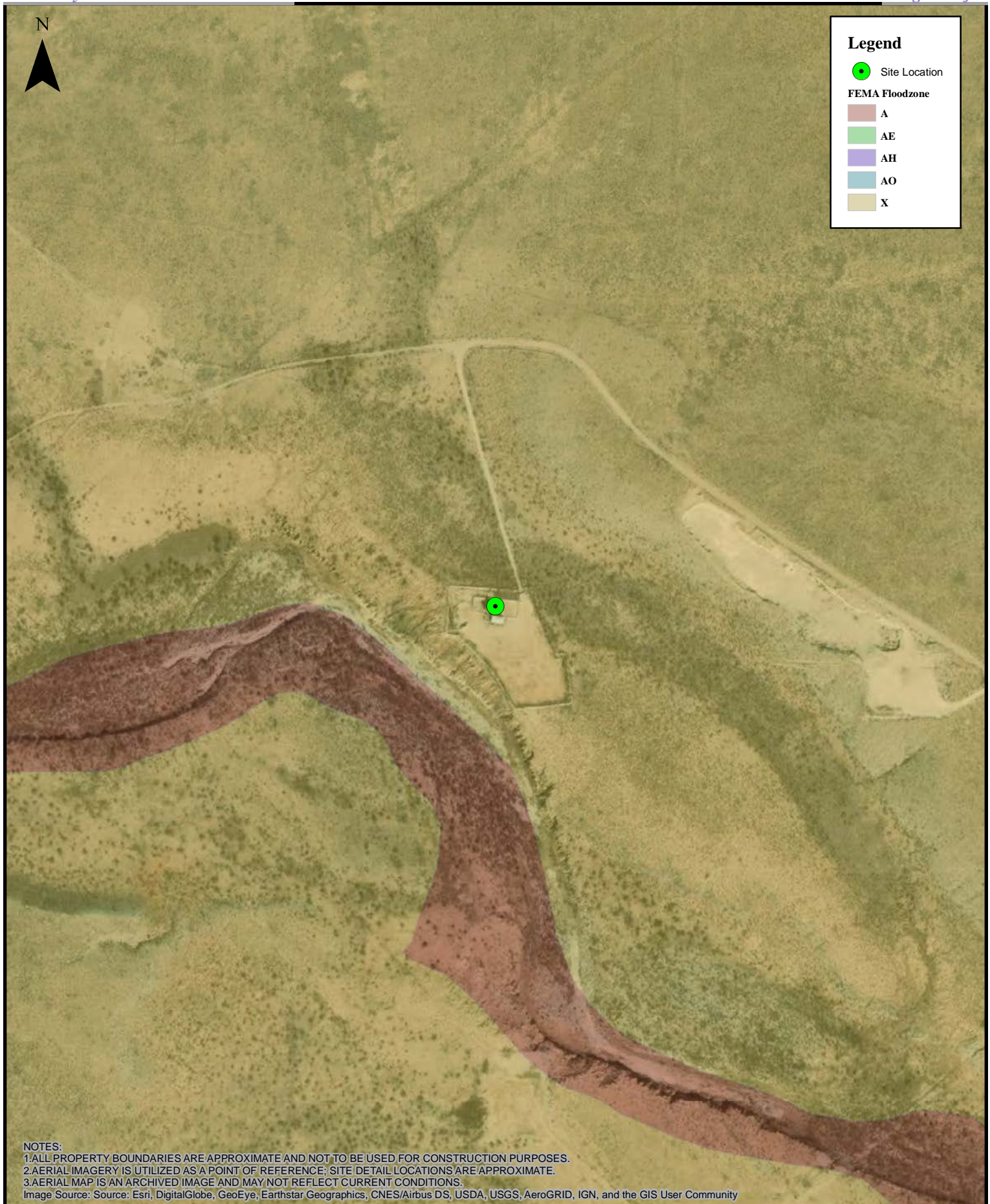
Area Map
Roy SWD #3
EOG Resources, Inc.



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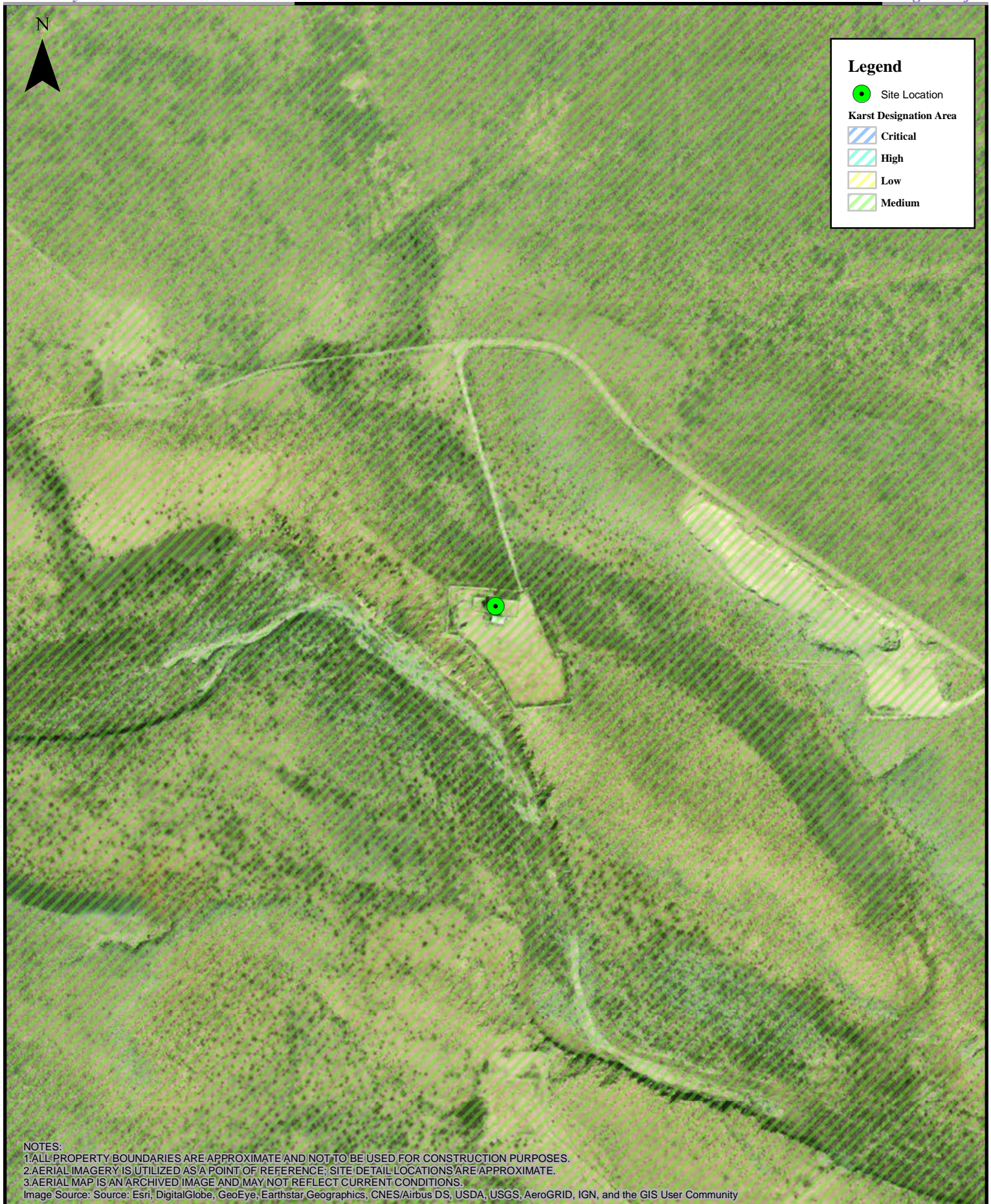
National Wetland Inventory Map

Roy SWD #3
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1:5,000

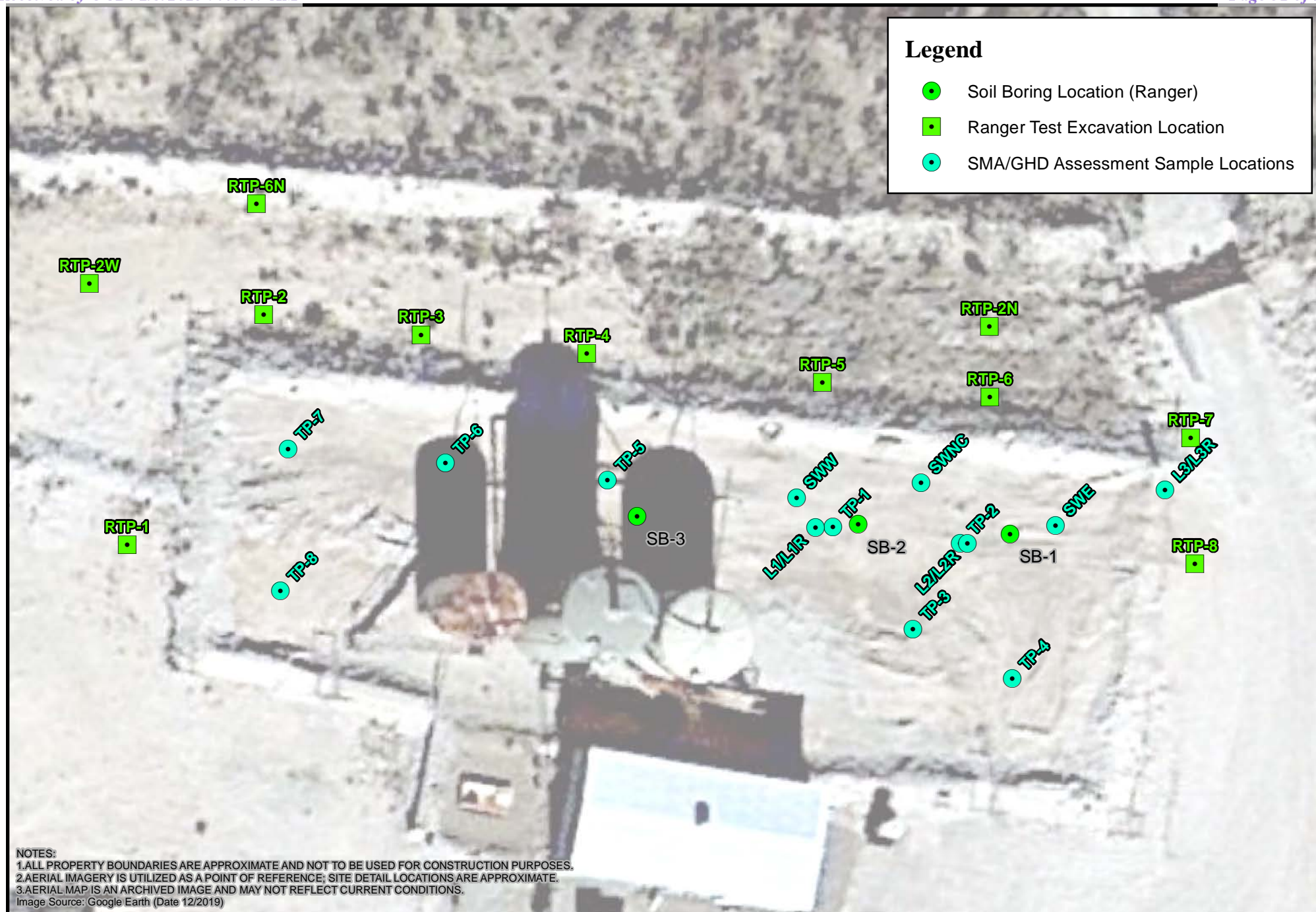
FEMA Floodplain Map
Roy SWD #3
EOG Resources, Inc.



0 125 250 500 750 1,000 Feet
1:5,000

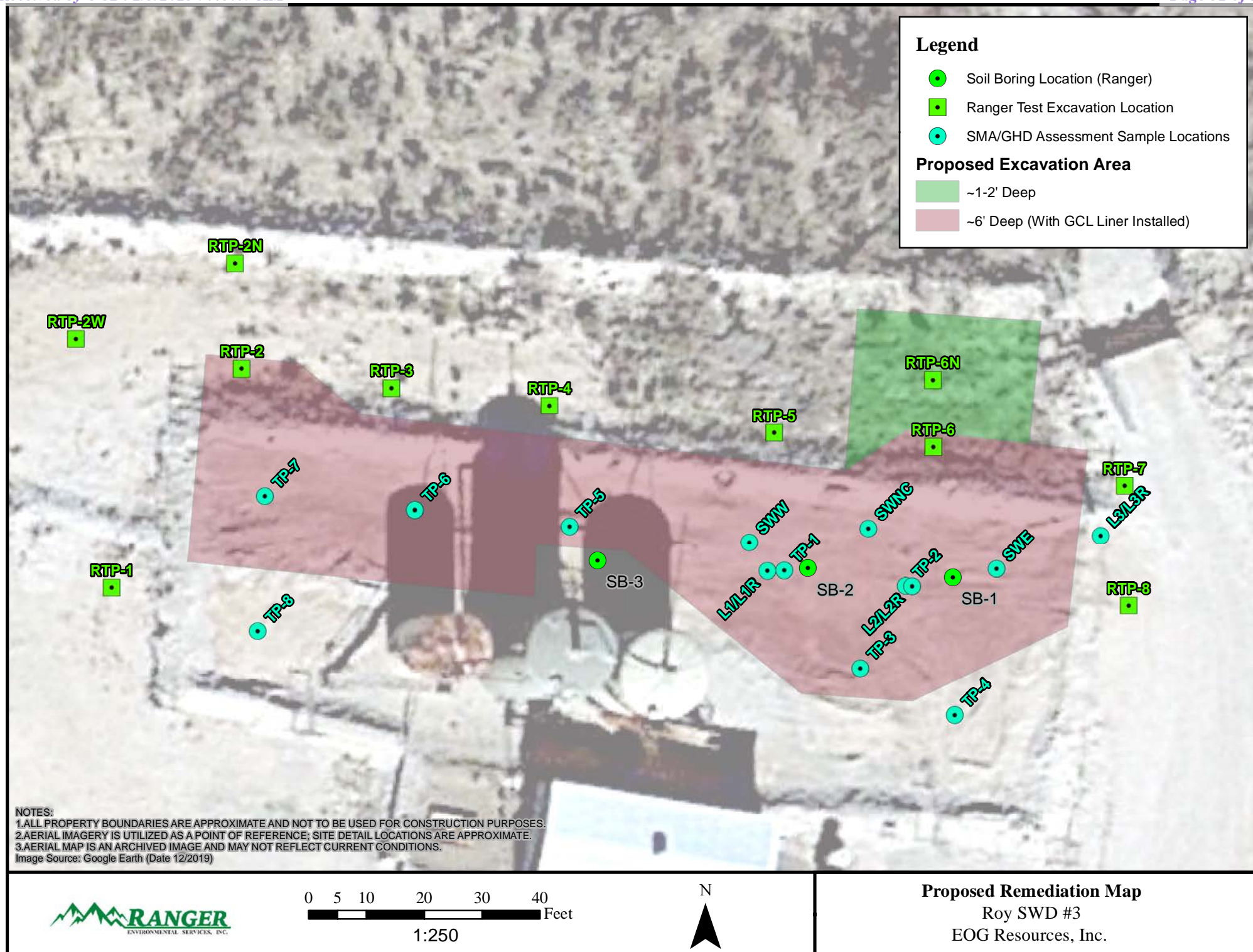
Karst Topography Map

Roy SWD #3
EOG Resources, Inc.



0 5 10 20 30 40
Feet
1:250





TABLES

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

SOIL BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA ROY SWD #3 - TANK BATTERY AREA 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
April 10-11, 2019 Soil Borings													
L1R / 35'	4/10/2019	35	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.9	<50	<14.9	<64.9	3,100
L1R / 40'	4/10/2019	40	<0.025	<0.048	<0.048	<0.097	<0.225	<4.8	<9.9	<49	<14.7	<63.7	530
L1R / 60'	4/10/2019	60	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.1	<45	<13.8	<58.8	410
L2R / 0'	4/11/2019	0	<0.024	<0.048	<0.048	<0.097	<0.0217	<4.8	<9.0	<45	<13.8	<58.8	1,700
L2R / 20'	4/11/2019	20	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<9.0	<45	<13.7	<58.7	1,700
L2R / 25'	4/11/2019	25	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<8.8	<44	<13.6	<57.6	10,000
L3R / 30'	4/11/2019	30	<0.212	<0.047	<0.047	<0.094	<0.212	<4.7	<8.7	<44	<13.4	<57.4	220
L3R / 35'	4/11/2019	35	<0.208	<0.046	<0.046	<0.093	<0.208	<4.6	<8.9	<45	<13.5	<58.5	140
L3R / 40'	4/11/2019	40	<0.212	<0.047	<0.047	<0.094	<0.212	<4.7	<9.8	<49	<14.5	<63.5	110
September 3-4, 2019 Test Pits													
TP-1-12'	9/3/2019	12	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<9.3	<46	<9.3	<60.3	2,900
TP-1-16'	9/3/2019	16	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.9	<50	<9.9	<64.7	940
TP-1-20'	9/3/2019	20	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<8.8	<44	<8.8	<57.7	3,500
TP-2-12'	9/3/2019	12	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.4	<47	<9.4	<61.3	320
TP-2-16'	9/3/2019	16	<0.025	<0.050	<0.050	<0.099	<0.224	11	290	150	301	451	760
TP-2-20'	9/3/2019	20	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<9.1	<45	<9.1	<59.0	1,000
TP-3-16'	9/3/2019	16	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.0	<45	<9.0	<58.8	13,000
TP-3-20'	9/3/2019	20	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.6	<48	<9.6	<62.5	12,000
SWE-4'	9/4/2019	4	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.7	<49	<9.7	<63.6	1,800
SWW-4'	9/4/2019	4	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	7,100	5,000	7,100	12,100	3,900
SWNC-4'	9/4/2019	4	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	830	790	830	1,620	1,100
TP-4-5'	9/4/2019	5	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<8.7	<44	<8.7	<57.4	400
TP-4-12'	9/4/2019	12	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.6	<48	<9.6	<62.3	300
TP-5-5'	9/4/2019	5	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	1,200	1,100	1,200	2,300	200
TP-5-12'	9/4/2019	12	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	1,300	750	1,300	2,050	260
TP-6-5'	9/4/2019	5	<0.120	<0.24	<0.24	<0.49	<1.09	17	4,200	2,100	4,217	6,317	350
TP-6-12'	9/4/2019	12	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<9.3	<47	<9.3	<61	240
TP-7-5'	9/4/2019	5	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	280	610	280	890	<60
TP-7-12'	9/4/2019	12	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<10	<50	<10	<64.9	<60

SOIL BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA ROY SWD #3 - TANK BATTERY AREA 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
TP-8-5'	9/4/2019	5	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<8.5	<42	<8.5	<55.3	530
TP-8-12'	9/4/2019	12	<0.023	<0.046	<0.046	<0.093	<0.208	<4.6	<10	<51	<10	<65.6	430
May 18, 2022 Soil Borings													
SB1-23	5/18/2022	23'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.2	<46	<9.2	<46	1,400
SB1-38	5/18/2022	38'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.5	<47	<9.5	<47	670
SB1-39	5/18/2022	39'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<9.0	<45	<9.0	<45	590
SB1-40	5/18/2022	40'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.0	<45	<9.0	<45	260
SB2-29	5/18/2022	29'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<9.8	<49	<9.8	<49	5,200
SB2-47	5/18/2022	47'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<8.6	<43	<8.6	<43	750
SB2-48	5/18/2022	48'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.9	<49	<9.9	<49	310
SB2-49	5/18/2022	49'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.9	<49	<9.9	<49	300
SB2-50	5/18/2022	50'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.1	<45	<9.1	<45	500
SB3-4	5/18/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<10	<50	<10	<50	130
SB3-14	5/18/2022	14'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<10	<50	<10	<50	<60
SB3-29	5/18/2022	29'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<10	<50	<10	<50	63
SB3-30	5/18/2022	30'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.5	<47	<9.5	<47	<60
August 2022 - Test Excavations													
RTP-1/1	8/22/2022	1'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<48	<14	<48	<60
RTP-1/6	8/22/2022	6'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<15	<49	<15	<49	370
RTP-2/1	8/22/2022	1'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<13	<44	<13	<44	<60
RTP-2/6	8/22/2022	6'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<50	<15	<50	810
RTP-2/9	8/22/2022	9'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<49	<15	<49	1,200
RTP-2/11	8/22/2022	11'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<15	<48	<15	<48	610
RTP-3/1	8/22/2022	1'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<15	<49	<15	<49	<60
RTP-3/4	8/22/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<47	<14	<47	440
RTP-3/6	8/22/2022	6'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<13	<45	<13	<45	440
RTP-4/1	8/22/2022	1'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<48	<14	<48	<60
RTP-4/6	8/22/2022	6'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<46	<14	<46	80
RTP-5/1	8/22/2022	1'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<13	<44	<13	<44	<60
RTP-5/6	8/22/2022	6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<47	<14	<47	260

SOIL BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA ROY SWD #3 - TANK BATTERY AREA 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
RTP-6/1	8/22/2022	1'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<13	<44	<13	<44	<60
RTP-6/6	8/22/2022	6'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<14	<45	<14	<45	940
RTP-6/7	8/22/2022	7'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<49	<15	<49	670
RTP-7/1	8/23/2022	1'	<0.023	<0.046	<0.046	<0.091	<0.09	<4.6	<15	<49	<15	<49	<60
RTP-7/6	8/23/2022	6'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<15	<50	<15	<50	<60
RTP-8/1	8/23/2022	1'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	20	72	20	92	69
RTP-8/6	8/23/2022	6'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<49	<15	<49	140
September 2022 - Test Excavations													
RTP-2W/2	9/23/2022	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<48	<14	<48	160
RTP-2W/4	9/23/2022	4'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<15	<49	<15	<49	590
RTP-2N/1	9/23/2022	1'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<46	<14	<46	<60
RTP-2N/4	9/23/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<48	<14	<48	95
RTP-6N/1	9/23/2022	1'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	61	95	61	156	<60
RTP-6N/4	9/23/2022	4'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<46	<14	<46	<60
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW <50')			10	---	---	---	50	---	---	---	---	100	600
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			10³				50³					100³	600
Notes:													
1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.													
2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.													
3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document <i>Procedures for the Implementation of the Spill Rule</i> (19.15.29 NMAC) dated September 6, 2019.													
4. NA - Not Analyzed													

ATTACHMENT 1 – USGS AND NMOSE WATER WELL DATA



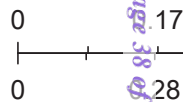
District Boundary



Site Boundaries

State Trust Lands


Estates





New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 06418	1	2	3	17	19S	25E	545925	3613710* 
Driller License: 406		Driller Company:		TIDWELL, CLYDE J.					
Driller Name:									
Drill Start Date:	12/11/1978	Drill Finish Date:		12/18/1978		Plug Date:			
Log File Date:	12/26/1978	PCW Rev Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:	7.00	Depth Well:		120 feet		Depth Water: 72 feet			
Water Bearing Stratifications:					Top	Bottom	Description		
					72	75	Shallow Alluvium/Basin Fill		
					106	112	Shallow Alluvium/Basin Fill		
Casing Perforations:					Top	Bottom			
					51	109			

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)					(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 04426	4	3	18	19S	25E		544412	3613201*

Driller License:

Driller Company:

Driller Name: PETERS

Drill Start Date:

Drill Finish Date:

Plug Date:

Log File Date:

PCW Rev Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 715 feet

Depth Water:

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY

USGS 324041104294801
DTW ~119'; 2012
~1.27 MI. FROM SITE

USGS 324004104285801
DTW ~95'; 2012
~2 MI. FROM SITE

USGS 323948104302801
DTW ~75'; ~2009
~0.7 MI FROM SITE

USGS 323948104302901
DTW ~97'; 1994
~0.7 MI. FROM SITE

SITE

SITE # 324024104322201
DTW ~262'; 1994
~1.3 MI. FROM SITE



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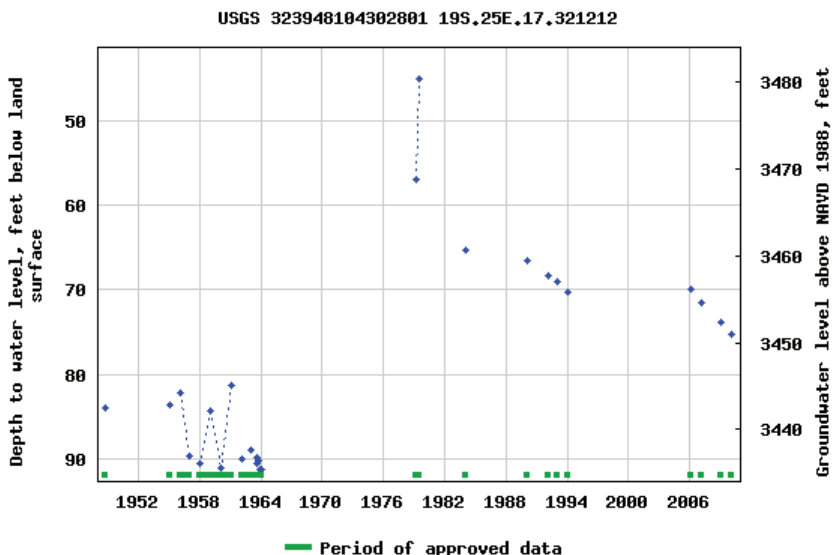
USGS 323948104302801 19S.25E.17.321212

Groundwater: Field measurements

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°39'48", Longitude 104°30'28" NAD27
Land-surface elevation 3,526 feet above NAVD88
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

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Groundwater: Field measurements 

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Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°39'48", Longitude 104°30'29" NAD27

Land-surface elevation 3,528 feet above NAVD88

The depth of the well is 120 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

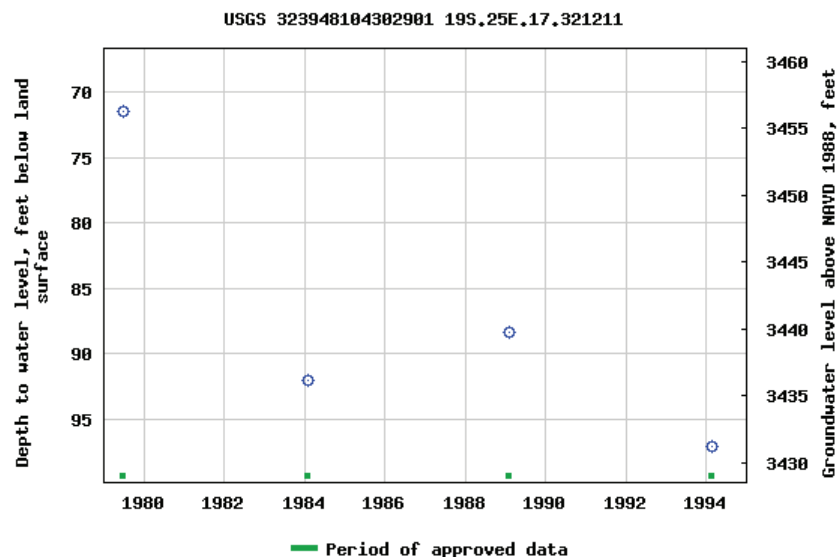
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- 324004104285801

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USGS 324004104285801 19S.25E.16.22332

Groundwater: Field measurements 

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Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°40'04", Longitude 104°28'58" NAD27

Land-surface elevation 3,487 feet above NAVD88

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

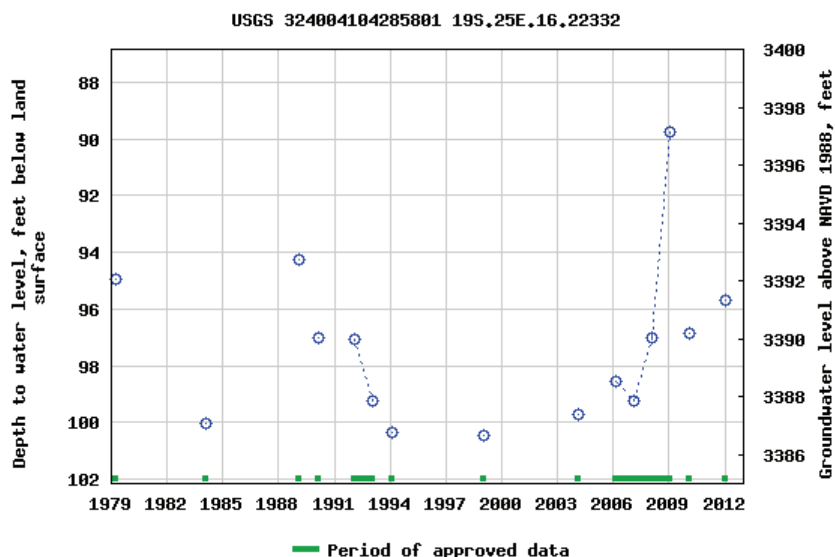
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Groundwater: Field measurements

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Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°40'24", Longitude 104°32'22" NAD27

Land-surface elevation 3,589 feet above NGVD29

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Artesia Group (313ARTS) local aquifer.

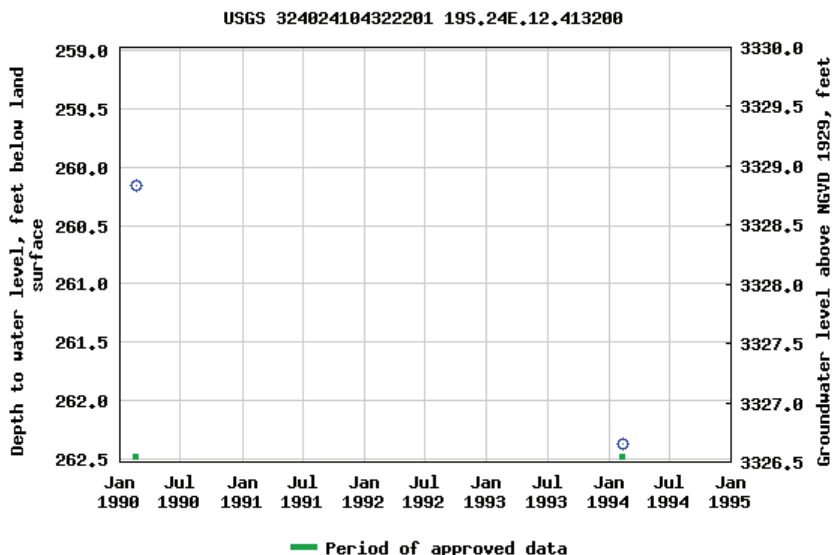
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Search Results -- 1 sites found

site_no list =

- 324041104294801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324041104294801 19S.25E.08.42222

Groundwater: Field measurements 

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°40'41", Longitude 104°29'48" NAD27

Land-surface elevation 3,539 feet above NAVD88

The depth of the well is 142 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

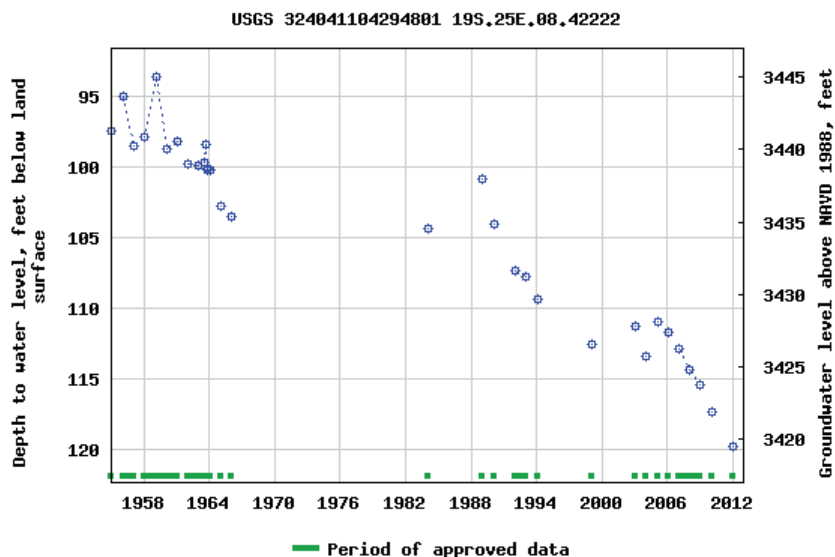
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)
[Feedback on this web site](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



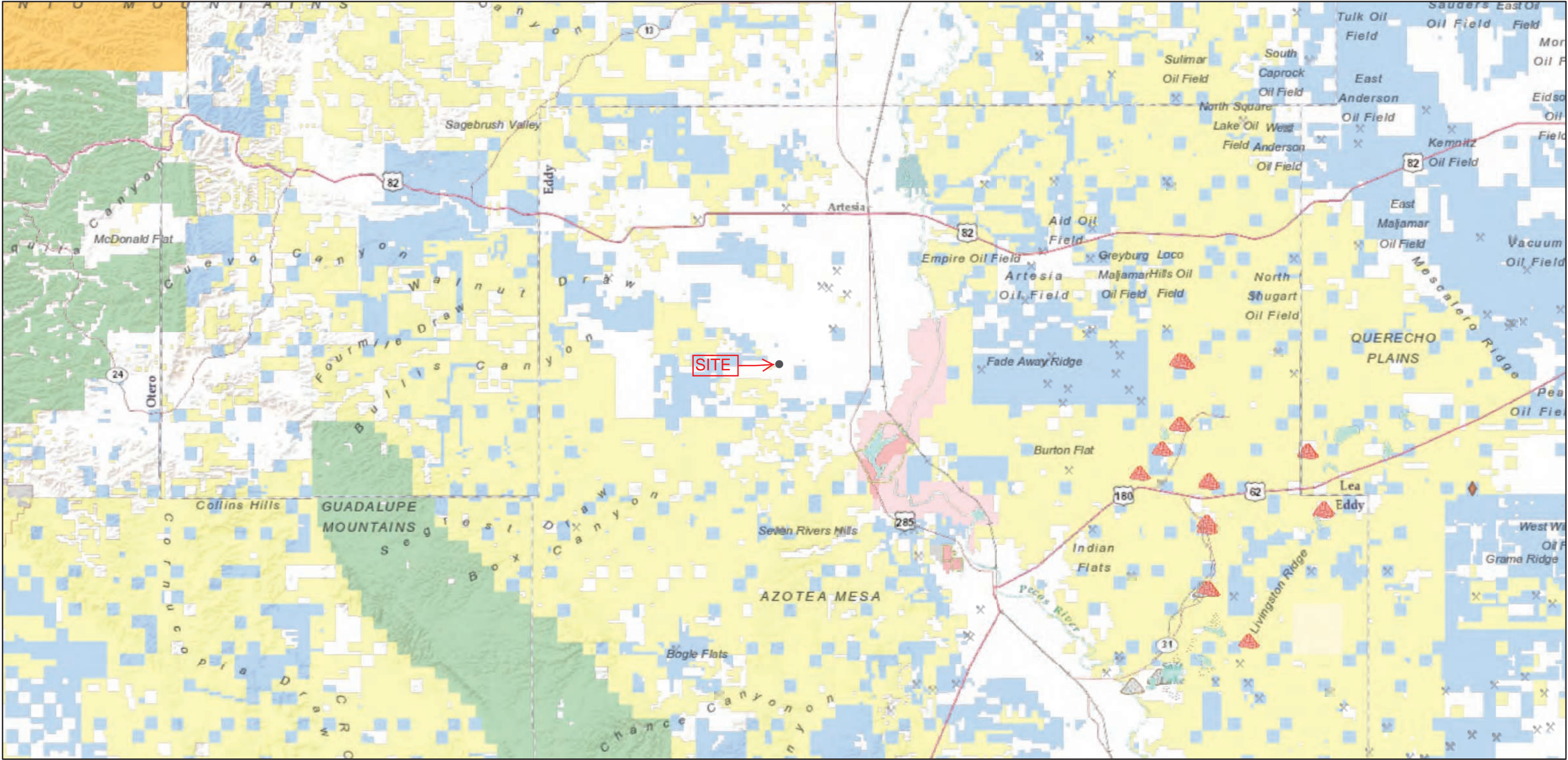
Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2021-10-08 15:54:11 EDT

0.6 0.51 nadww02

ATTACHMENT 2 – NM ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT ACTIVE MINES MAP

Active Mines in New Mexico

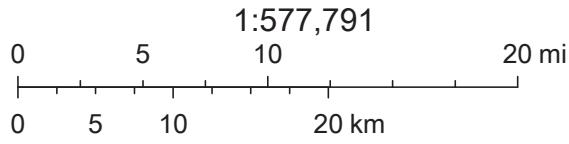


10/8/2021, 9:48:01 AM

Land Ownership

- | | |
|---------------------------|------------------------------|
| Department of Energy | State Land |
| Bureau of Land Management | National Park Service |
| Bureau of Reclamation | Private Land |
| Department of Agriculture | State Game and Fish |
| Department of Defense | US Fish and Wildlife Service |
| | Tribal |

- | | |
|-----------------------|-----------------------------|
| US Forest Service | Aggregate, Stone etc. |
| Registered Mines | Industrial Minerals (Other) |
| Aggregate, Stone etc. | Potash |
| Aggregate, Stone etc. | Salt |
| Aggregate, Stone etc. | |



U.S. Bureau of Land Management - New Mexico State Office,
Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

ATTACHMENT 3 – PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPH NO. 1 – A typical view of the soil boring installation activities at the SB-2 location. The view is towards the west.

(Approximate GPS: 32.670983, -104.517602)



PHOTOGRAPH NO. 2 – A typical view of the soil boring plugging and abandonment activities following installation and sampling.

(Approximate GPS: 32.670981, -104.517583)



PHOTOGRAPH NO. 3 – A typical view of the assessment activities on August 23, 2022. The view is towards the north.

(Approximate GPS: 32.670948, -104.517505)

ATTACHMENT 4 – LABORATORY REPORTS



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

June 02, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Roy SWD 3

OrderNo.: 2205923

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 21 sample(s) on 5/20/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB1-23

Project: Roy SWD 3

Collection Date: 5/18/2022 8:37:00 AM

Lab ID: 2205923-001

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1400	60		mg/Kg	20	5/25/2022 7:29:55 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	5/23/2022 1:17:23 PM	67607
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/23/2022 1:17:23 PM	67607
Surr: DNOP	86.1	51.1-141		%Rec	1	5/23/2022 1:17:23 PM	67607
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022	67603
Surr: BFB	83.8	37.7-212		%Rec	1	5/24/2022	67603
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	5/24/2022	67603
Toluene	ND	0.048		mg/Kg	1	5/24/2022	67603
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022	67603
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2022	67603
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	5/24/2022	67603

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB1-38

Project: Roy SWD 3

Collection Date: 5/18/2022 9:35:00 AM

Lab ID: 2205923-002

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	670	60		mg/Kg	20	5/25/2022 7:42:16 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/23/2022 1:41:05 PM	67607
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/23/2022 1:41:05 PM	67607
Surr: DNOP	82.3	51.1-141		%Rec	1	5/23/2022 1:41:05 PM	67607
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 12:40:00 AM	67603
Surr: BFB	90.9	37.7-212		%Rec	1	5/24/2022 12:40:00 AM	67603
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	5/24/2022 12:40:00 AM	67603
Toluene	ND	0.048		mg/Kg	1	5/24/2022 12:40:00 AM	67603
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 12:40:00 AM	67603
Xylenes, Total	ND	0.095		mg/Kg	1	5/24/2022 12:40:00 AM	67603
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	5/24/2022 12:40:00 AM	67603

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB1-39

Project: Roy SWD 3

Collection Date: 5/18/2022 9:36:00 AM

Lab ID: 2205923-003

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	590	60		mg/Kg	20	5/25/2022 7:54:37 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/23/2022 2:04:55 PM	67607
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/23/2022 2:04:55 PM	67607
Surr: DNOP	82.4	51.1-141		%Rec	1	5/23/2022 2:04:55 PM	67607
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/24/2022 12:59:00 AM	67603
Surr: BFB	92.9	37.7-212		%Rec	1	5/24/2022 12:59:00 AM	67603
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	5/24/2022 12:59:00 AM	67603
Toluene	ND	0.047		mg/Kg	1	5/24/2022 12:59:00 AM	67603
Ethylbenzene	ND	0.047		mg/Kg	1	5/24/2022 12:59:00 AM	67603
Xylenes, Total	ND	0.094		mg/Kg	1	5/24/2022 12:59:00 AM	67603
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	5/24/2022 12:59:00 AM	67603

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB1-40

Project: Roy SWD 3

Collection Date: 5/18/2022 9:37:00 AM

Lab ID: 2205923-004

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	260	61		mg/Kg	20	5/25/2022 8:06:57 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/23/2022 2:28:44 PM	67607
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/23/2022 2:28:44 PM	67607
Surr: DNOP	80.4	51.1-141		%Rec	1	5/23/2022 2:28:44 PM	67607
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 1:19:00 AM	67603
Surr: BFB	93.2	37.7-212		%Rec	1	5/24/2022 1:19:00 AM	67603
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	5/24/2022 1:19:00 AM	67603
Toluene	ND	0.048		mg/Kg	1	5/24/2022 1:19:00 AM	67603
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 1:19:00 AM	67603
Xylenes, Total	ND	0.096		mg/Kg	1	5/24/2022 1:19:00 AM	67603
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	5/24/2022 1:19:00 AM	67603

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB2-29

Project: Roy SWD 3

Collection Date: 5/18/2022 10:49:00 AM

Lab ID: 2205923-005

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	5200	300		mg/Kg	100	5/26/2022 10:36:38 AM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/23/2022 2:52:34 PM	67607
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/23/2022 2:52:34 PM	67607
Surr: DNOP	83.2	51.1-141		%Rec	1	5/23/2022 2:52:34 PM	67607
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/24/2022 1:39:00 AM	67603
Surr: BFB	94.5	37.7-212		%Rec	1	5/24/2022 1:39:00 AM	67603
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	5/24/2022 1:39:00 AM	67603
Toluene	ND	0.046		mg/Kg	1	5/24/2022 1:39:00 AM	67603
Ethylbenzene	ND	0.046		mg/Kg	1	5/24/2022 1:39:00 AM	67603
Xylenes, Total	ND	0.092		mg/Kg	1	5/24/2022 1:39:00 AM	67603
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	5/24/2022 1:39:00 AM	67603

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB2-47

Project: Roy SWD 3

Collection Date: 5/18/2022 11:57:00 AM

Lab ID: 2205923-006

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	750	60		mg/Kg	20	5/25/2022 8:56:19 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	5/23/2022 3:16:20 PM	67607
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	5/23/2022 3:16:20 PM	67607
Surr: DNOP	85.5	51.1-141		%Rec	1	5/23/2022 3:16:20 PM	67607
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 1:58:00 AM	67603
Surr: BFB	91.4	37.7-212		%Rec	1	5/24/2022 1:58:00 AM	67603
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	5/24/2022 1:58:00 AM	67603
Toluene	ND	0.048		mg/Kg	1	5/24/2022 1:58:00 AM	67603
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 1:58:00 AM	67603
Xylenes, Total	ND	0.096		mg/Kg	1	5/24/2022 1:58:00 AM	67603
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	5/24/2022 1:58:00 AM	67603

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB2-48

Project: Roy SWD 3

Collection Date: 5/18/2022 11:58:00 AM

Lab ID: 2205923-007

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	310	60		mg/Kg	20	5/25/2022 9:08:40 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/23/2022 3:40:20 PM	67607
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/23/2022 3:40:20 PM	67607
Surr: DNOP	84.3	51.1-141		%Rec	1	5/23/2022 3:40:20 PM	67607
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 2:18:00 AM	67603
Surr: BFB	92.2	37.7-212		%Rec	1	5/24/2022 2:18:00 AM	67603
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	5/24/2022 2:18:00 AM	67603
Toluene	ND	0.048		mg/Kg	1	5/24/2022 2:18:00 AM	67603
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 2:18:00 AM	67603
Xylenes, Total	ND	0.095		mg/Kg	1	5/24/2022 2:18:00 AM	67603
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	5/24/2022 2:18:00 AM	67603

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB2-49

Project: Roy SWD 3

Collection Date: 5/18/2022 11:59:00 AM

Lab ID: 2205923-008

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	300	60		mg/Kg	20	5/25/2022 9:21:00 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/23/2022 4:04:25 PM	67607
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/23/2022 4:04:25 PM	67607
Surr: DNOP	81.5	51.1-141		%Rec	1	5/23/2022 4:04:25 PM	67607
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 2:38:00 AM	67603
Surr: BFB	95.7	37.7-212		%Rec	1	5/24/2022 2:38:00 AM	67603
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	5/24/2022 2:38:00 AM	67603
Toluene	ND	0.049		mg/Kg	1	5/24/2022 2:38:00 AM	67603
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 2:38:00 AM	67603
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2022 2:38:00 AM	67603
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	5/24/2022 2:38:00 AM	67603

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB2-50

Project: Roy SWD 3

Collection Date: 5/18/2022 12:00:00 PM

Lab ID: 2205923-009

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	500	60		mg/Kg	20	5/25/2022 9:33:21 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/23/2022 4:28:29 PM	67607
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/23/2022 4:28:29 PM	67607
Surr: DNOP	83.7	51.1-141		%Rec	1	5/23/2022 4:28:29 PM	67607
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 2:58:00 AM	67603
Surr: BFB	101	37.7-212		%Rec	1	5/24/2022 2:58:00 AM	67603
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	5/24/2022 2:58:00 AM	67603
Toluene	ND	0.049		mg/Kg	1	5/24/2022 2:58:00 AM	67603
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 2:58:00 AM	67603
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2022 2:58:00 AM	67603
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	5/24/2022 2:58:00 AM	67603

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB3-4

Project: Roy SWD 3

Collection Date: 5/18/2022 1:04:00 PM

Lab ID: 2205923-010

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	130	60		mg/Kg	20	5/25/2022 10:35:03 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/23/2022 4:52:34 PM	67607
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/23/2022 4:52:34 PM	67607
Surr: DNOP	87.9	51.1-141		%Rec	1	5/23/2022 4:52:34 PM	67607
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 3:17:00 AM	67603
Surr: BFB	97.3	37.7-212		%Rec	1	5/24/2022 3:17:00 AM	67603
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	5/24/2022 3:17:00 AM	67603
Toluene	ND	0.048		mg/Kg	1	5/24/2022 3:17:00 AM	67603
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 3:17:00 AM	67603
Xylenes, Total	ND	0.096		mg/Kg	1	5/24/2022 3:17:00 AM	67603
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	5/24/2022 3:17:00 AM	67603

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB3-14

Project: Roy SWD 3

Collection Date: 5/18/2022 1:14:00 PM

Lab ID: 2205923-011

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	5/25/2022 10:47:24 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/26/2022 1:40:05 AM	67669
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/26/2022 1:40:05 AM	67669
Surr: DNOP	96.5	51.1-141		%Rec	1	5/26/2022 1:40:05 AM	67669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/24/2022 3:37:00 AM	67603
Surr: BFB	92.9	37.7-212		%Rec	1	5/24/2022 3:37:00 AM	67603
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	5/24/2022 3:37:00 AM	67603
Toluene	ND	0.047		mg/Kg	1	5/24/2022 3:37:00 AM	67603
Ethylbenzene	ND	0.047		mg/Kg	1	5/24/2022 3:37:00 AM	67603
Xylenes, Total	ND	0.094		mg/Kg	1	5/24/2022 3:37:00 AM	67603
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	5/24/2022 3:37:00 AM	67603

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB3-29

Project: Roy SWD 3

Collection Date: 5/18/2022 1:31:00 PM

Lab ID: 2205923-012

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	63	60		mg/Kg	20	5/25/2022 11:24:26 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/26/2022 2:53:17 AM	67669
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/26/2022 2:53:17 AM	67669
Surr: DNOP	93.8	51.1-141		%Rec	1	5/26/2022 2:53:17 AM	67669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/23/2022 9:40:57 PM	67605
Surr: BFB	90.7	37.7-212		%Rec	1	5/23/2022 9:40:57 PM	67605
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/23/2022 9:40:57 PM	67605
Toluene	ND	0.049		mg/Kg	1	5/23/2022 9:40:57 PM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/23/2022 9:40:57 PM	67605
Xylenes, Total	ND	0.099		mg/Kg	1	5/23/2022 9:40:57 PM	67605
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	5/23/2022 9:40:57 PM	67605

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB3-30

Project: Roy SWD 3

Collection Date: 5/18/2022 1:32:00 PM

Lab ID: 2205923-013

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	5/25/2022 11:36:46 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/26/2022 3:17:42 AM	67669
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/26/2022 3:17:42 AM	67669
Surr: DNOP	91.1	51.1-141		%Rec	1	5/26/2022 3:17:42 AM	67669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/23/2022 10:51:34 PM	67605
Surr: BFB	92.4	37.7-212		%Rec	1	5/23/2022 10:51:34 PM	67605
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/23/2022 10:51:34 PM	67605
Toluene	ND	0.049		mg/Kg	1	5/23/2022 10:51:34 PM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/23/2022 10:51:34 PM	67605
Xylenes, Total	ND	0.098		mg/Kg	1	5/23/2022 10:51:34 PM	67605
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	5/23/2022 10:51:34 PM	67605

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB4-10

Project: Roy SWD 3

Collection Date: 5/19/2022 7:40:00 AM

Lab ID: 2205923-014

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1300	59		mg/Kg	20	5/25/2022 11:49:07 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/26/2022 4:06:15 AM	67669
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/26/2022 4:06:15 AM	67669
Surr: DNOP	96.6	51.1-141		%Rec	1	5/26/2022 4:06:15 AM	67669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/24/2022 12:02:08 AM	67605
Surr: BFB	89.7	37.7-212		%Rec	1	5/24/2022 12:02:08 AM	67605
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/24/2022 12:02:08 AM	67605
Toluene	ND	0.050		mg/Kg	1	5/24/2022 12:02:08 AM	67605
Ethylbenzene	ND	0.050		mg/Kg	1	5/24/2022 12:02:08 AM	67605
Xylenes, Total	ND	0.10		mg/Kg	1	5/24/2022 12:02:08 AM	67605
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	5/24/2022 12:02:08 AM	67605

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB4-15

Project: Roy SWD 3

Collection Date: 5/19/2022 7:45:00 AM

Lab ID: 2205923-015

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	890	60		mg/Kg	20	5/26/2022 12:01:28 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/26/2022 4:30:33 AM	67669
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 4:30:33 AM	67669
Surr: DNOP	97.9	51.1-141		%Rec	1	5/26/2022 4:30:33 AM	67669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 12:25:48 AM	67605
Surr: BFB	92.3	37.7-212		%Rec	1	5/24/2022 12:25:48 AM	67605
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2022 12:25:48 AM	67605
Toluene	ND	0.049		mg/Kg	1	5/24/2022 12:25:48 AM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 12:25:48 AM	67605
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2022 12:25:48 AM	67605
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	5/24/2022 12:25:48 AM	67605

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB4-20

Project: Roy SWD 3

Collection Date: 5/19/2022 7:50:00 AM

Lab ID: 2205923-016

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	250	59		mg/Kg	20	5/26/2022 12:13:48 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/26/2022 4:54:48 AM	67669
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/26/2022 4:54:48 AM	67669
Surr: DNOP	97.4	51.1-141		%Rec	1	5/26/2022 4:54:48 AM	67669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 12:49:23 AM	67605
Surr: BFB	89.7	37.7-212		%Rec	1	5/24/2022 12:49:23 AM	67605
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2022 12:49:23 AM	67605
Toluene	ND	0.049		mg/Kg	1	5/24/2022 12:49:23 AM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 12:49:23 AM	67605
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2022 12:49:23 AM	67605
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	5/24/2022 12:49:23 AM	67605

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB4-30

Project: Roy SWD 3

Collection Date: 5/19/2022 8:00:00 AM

Lab ID: 2205923-017

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	5/26/2022 12:26:09 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/26/2022 5:18:59 AM	67669
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 5:18:59 AM	67669
Surr: DNOP	95.4	51.1-141		%Rec	1	5/26/2022 5:18:59 AM	67669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/24/2022 1:13:03 AM	67605
Surr: BFB	89.4	37.7-212		%Rec	1	5/24/2022 1:13:03 AM	67605
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/24/2022 1:13:03 AM	67605
Toluene	ND	0.050		mg/Kg	1	5/24/2022 1:13:03 AM	67605
Ethylbenzene	ND	0.050		mg/Kg	1	5/24/2022 1:13:03 AM	67605
Xylenes, Total	ND	0.10		mg/Kg	1	5/24/2022 1:13:03 AM	67605
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	5/24/2022 1:13:03 AM	67605

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB5-26

Project: Roy SWD 3

Collection Date: 5/19/2022 8:46:00 AM

Lab ID: 2205923-018

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	4300	150		mg/Kg	50	5/26/2022 10:48:58 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/26/2022 5:43:08 AM	67669
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 5:43:08 AM	67669
Surr: DNOP	97.8	51.1-141		%Rec	1	5/26/2022 5:43:08 AM	67669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 1:36:44 AM	67605
Surr: BFB	91.6	37.7-212		%Rec	1	5/24/2022 1:36:44 AM	67605
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2022 1:36:44 AM	67605
Toluene	ND	0.048		mg/Kg	1	5/24/2022 1:36:44 AM	67605
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 1:36:44 AM	67605
Xylenes, Total	ND	0.095		mg/Kg	1	5/24/2022 1:36:44 AM	67605
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	5/24/2022 1:36:44 AM	67605

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB5-38

Project: Roy SWD 3

Collection Date: 5/19/2022 9:20:00 AM

Lab ID: 2205923-019

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1100	60		mg/Kg	20	5/26/2022 12:50:51 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/26/2022 6:07:01 AM	67669
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/26/2022 6:07:01 AM	67669
Surr: DNOP	100	51.1-141		%Rec	1	5/26/2022 6:07:01 AM	67669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 2:00:25 AM	67605
Surr: BFB	92.6	37.7-212		%Rec	1	5/24/2022 2:00:25 AM	67605
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/24/2022 2:00:25 AM	67605
Toluene	ND	0.049		mg/Kg	1	5/24/2022 2:00:25 AM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 2:00:25 AM	67605
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2022 2:00:25 AM	67605
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	5/24/2022 2:00:25 AM	67605

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB5-39

Project: Roy SWD 3

Collection Date: 5/19/2022 9:21:00 AM

Lab ID: 2205923-020

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	420	60		mg/Kg	20	5/26/2022 1:03:12 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/26/2022 6:30:56 AM	67669
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 6:30:56 AM	67669
Surr: DNOP	100	51.1-141		%Rec	1	5/26/2022 6:30:56 AM	67669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 3:11:22 AM	67605
Surr: BFB	94.6	37.7-212		%Rec	1	5/24/2022 3:11:22 AM	67605
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2022 3:11:22 AM	67605
Toluene	ND	0.048		mg/Kg	1	5/24/2022 3:11:22 AM	67605
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 3:11:22 AM	67605
Xylenes, Total	ND	0.095		mg/Kg	1	5/24/2022 3:11:22 AM	67605
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	5/24/2022 3:11:22 AM	67605

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

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

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Analytical Report

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SB5-40

Project: Roy SWD 3

Collection Date: 5/19/2022 9:22:00 AM

Lab ID: 2205923-021

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	380	60		mg/Kg	20	5/26/2022 1:15:33 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/26/2022 6:54:55 AM	67669
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/26/2022 6:54:55 AM	67669
Surr: DNOP	101	51.1-141		%Rec	1	5/26/2022 6:54:55 AM	67669
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 3:35:01 AM	67605
Surr: BFB	91.2	37.7-212		%Rec	1	5/24/2022 3:35:01 AM	67605
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/24/2022 3:35:01 AM	67605
Toluene	ND	0.049		mg/Kg	1	5/24/2022 3:35:01 AM	67605
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 3:35:01 AM	67605
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2022 3:35:01 AM	67605
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	5/24/2022 3:35:01 AM	67605

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

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

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

WO#: 2205923

02-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-67690	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 67690	RunNo: 88285								
Prep Date: 5/25/2022	Analysis Date: 5/25/2022	SeqNo: 3130981	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67690	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67690	RunNo: 88285								
Prep Date: 5/25/2022	Analysis Date: 5/25/2022	SeqNo: 3130982	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Sample ID: LCS-67699	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67699	RunNo: 88285								
Prep Date: 5/25/2022	Analysis Date: 5/25/2022	SeqNo: 3131011	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

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

Qualifiers:

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

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

WO#: 2205923

02-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: LCS-67607	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 67607		RunNo: 88200							
Prep Date: 5/20/2022	Analysis Date: 5/23/2022		SeqNo: 3127567		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.00	0	116	64.4	127			
Surr: DNOP	6.4		5.000		127	51.1	141			

Sample ID: MB-67607	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67607		RunNo: 88200							
Prep Date: 5/20/2022	Analysis Date: 5/23/2022		SeqNo: 3127570		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		132	51.1	141			

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

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

Sample ID: MB-67666	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 67666		RunNo: 88263							
Prep Date: 5/24/2022	Analysis Date: 5/26/2022		SeqNo: 3131422		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	51.1	141			

Qualifiers:

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

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

WO#: 2205923

02-Jun-22

Client: EOG
Project: Roy SWD 3

Sample ID: LCS-67666	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 67666			RunNo: 88263						
Prep Date: 5/24/2022	Analysis Date: 5/26/2022			SeqNo: 3131423		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		108	51.1	141			

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

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

Qualifiers:

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

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

WO#: 2205923

02-Jun-22

Client: EOG
Project: Roy SWD 3

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

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

Sample ID: lcs-67603	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 67603			RunNo: 88207						
Prep Date: 5/20/2022	Analysis Date: 5/23/2022			SeqNo: 3127053		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.1	72.3	137			
Surr: BFB	2000		1000		198	37.7	212			

Sample ID: mb-67603	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 67603			RunNo: 88207						
Prep Date: 5/20/2022	Analysis Date: 5/23/2022			SeqNo: 3127054		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		85.5	37.7	212			

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

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

Qualifiers:

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

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

WO#: 2205923

02-Jun-22

Client: EOG
Project: Roy SWD 3

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

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

Sample ID: lcs-67603	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 67603		RunNo: 88207							
Prep Date: 5/20/2022	Analysis Date: 5/23/2022		SeqNo: 3127099		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.95	0.050	1.000	0	95.0	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.0	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Sample ID: mb-67603	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 67603		RunNo: 88207							
Prep Date: 5/20/2022	Analysis Date: 5/23/2022		SeqNo: 3127100		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2205923

02-Jun-22

Client: EOG
Project: Roy SWD 3

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

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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2205923

RcptNo: 1

Received By: Juan Rojas

5/20/2022 7:05:00 AM

Juan Rojas

Completed By: Juan Rojas

5/20/2022 7:36:50 AM

*Juan Rojas*Reviewed By: *sc 5/20/22*Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *jn 5/20/22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

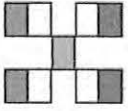
Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

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



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Chain-of-Custody Record				Turn-Around Time:		
Client: EOG-Artesia / Ranger Env.				Standard	Rush	
				Project Name:		
Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210				Project #:		
Ranger: PO Box 201179, Austin TX 78720				Project Manager:		
Phone #: 521-335-1785						
email or Fax#: Will@RangerEnv.com						
QA/QC Package:						
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)						
Accreditation: <input type="checkbox"/> Az Compliance <input checked="" type="checkbox"/> NELAC <input type="checkbox"/> Other				Sampler: <u>W. Kennedy</u> On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<input checked="" type="checkbox"/> EDD (Type) <u>Excel</u>				# of Coolers: <u>1</u> Cooler Temp (including CF): <u>1.6-0.1=1.5</u>		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
5/19/22	0837	Soil	SB1-23	14oz Jar	Ice	2205923
	0935		SB1-38			-001
	0936		SB1-39			-002
	0937		SB1-40			-003
	1049		SB2-29			-004
	1157		SB2-47			-005
	1158		SB2-48			-006
	1159		SB2-49			-007
	1200		SB2-50			-008
	1304		SB3-4			-009
	1314		SB3-14			-010
	1331		SB3-29			-011
						-012
Relinquished by:				Received by:		Date
5/19/22 1215 W. Kennedy				5/19/22 1215		Time
Relinquished by:				Received by:		Date
5/19/22 1900				5/20/22 7:00		Time

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.

2nd
EIN

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env

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

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

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

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

EDD (Type) _____

Turn-Around Time: ☒ Standard ☒ Rush 5 Day

Project Name: Roy SWD #3

Project #: 5375

Project Manager: W. Kennedy

Sampler: W. Kennedy

On Ice: ☒ Yes ☐ No

of Coolers: 1

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

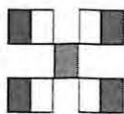
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
5/18/22	1332	Soil	SB3-30	1402 Jar	Ice	2205923
5/18/22	0740		SB4-10			-013
	0745		SB4-15			-014
	0756		SB4-20			-015
	0800		SB4-30			-016
	0846		SB5-26			-017
	0920		SB5-38			-018
	0921		SB5-39			-019
	0922		SB5-40			-020
						-021

Date: 5/18/22 Time: 1215 Relinquished by: W. Kennedy

Date: 5/19/22 Time: 1900 Relinquished by: W. Kennedy

Received by: W. Kennedy Date: 5/18/22 Time: 1215

Received by: Ref 100105 Date: 5/18/22 Time: 7:05



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

TPH:8015D(GRO / DRO / MRO)	X	8081 Pesticides/8082 PCB's		EDB (Method 504.1)		PAHs by 8310 or 8270SIMS		RCRA 8 Metals		Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄		8260 (VOA)		8270 (Semi-VOA)		Total Coliform (Present/Absent)	X	Chloride (EPA 300)	
BTEX / MTBE / TMB's (8021)	X																		

Remarks: Bill to EOG-Artesia



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

September 02, 2022

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

RE: Roy SWD 3

OrderNo.: 2208E19

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 16 sample(s) on 8/24/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-2/1

Project: Roy SWD 3

Collection Date: 8/22/2022 9:48:00 AM

Lab ID: 2208E19-001

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/30/2022 1:15:20 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	8/27/2022 12:18:52 AM	69775
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/27/2022 12:18:52 AM	69775
Surr: DNOP	97.6	21-129		%Rec	1	8/27/2022 12:18:52 AM	69775
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/26/2022 4:41:57 AM	69740
Surr: BFB	99.1	37.7-212		%Rec	1	8/26/2022 4:41:57 AM	69740
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/26/2022 4:41:57 AM	69740
Toluene	ND	0.047		mg/Kg	1	8/26/2022 4:41:57 AM	69740
Ethylbenzene	ND	0.047		mg/Kg	1	8/26/2022 4:41:57 AM	69740
Xylenes, Total	ND	0.094		mg/Kg	1	8/26/2022 4:41:57 AM	69740
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	8/26/2022 4:41:57 AM	69740

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-2/6

Project: Roy SWD 3

Collection Date: 8/22/2022 10:00:00 AM

Lab ID: 2208E19-002

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	810	60		mg/Kg	20	8/30/2022 1:52:34 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/27/2022 12:40:36 AM	69775
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/27/2022 12:40:36 AM	69775
Surr: DNOP	83.4	21-129		%Rec	1	8/27/2022 12:40:36 AM	69775
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/25/2022 6:44:00 PM	69740
Surr: BFB	105	37.7-212		%Rec	1	8/25/2022 6:44:00 PM	69740
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	8/25/2022 6:44:00 PM	69740
Toluene	ND	0.050		mg/Kg	1	8/25/2022 6:44:00 PM	69740
Ethylbenzene	ND	0.050		mg/Kg	1	8/25/2022 6:44:00 PM	69740
Xylenes, Total	ND	0.099		mg/Kg	1	8/25/2022 6:44:00 PM	69740
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	8/25/2022 6:44:00 PM	69740

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-2/9

Project: Roy SWD 3

Collection Date: 8/22/2022 10:20:00 AM

Lab ID: 2208E19-003

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1200	60		mg/Kg	20	8/30/2022 2:04:59 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/27/2022 12:51:31 AM	69775
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/27/2022 12:51:31 AM	69775
Surr: DNOP	81.4	21-129		%Rec	1	8/27/2022 12:51:31 AM	69775
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/25/2022 7:03:00 PM	69740
Surr: BFB	101	37.7-212		%Rec	1	8/25/2022 7:03:00 PM	69740
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	8/25/2022 7:03:00 PM	69740
Toluene	ND	0.048		mg/Kg	1	8/25/2022 7:03:00 PM	69740
Ethylbenzene	ND	0.048		mg/Kg	1	8/25/2022 7:03:00 PM	69740
Xylenes, Total	ND	0.097		mg/Kg	1	8/25/2022 7:03:00 PM	69740
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	8/25/2022 7:03:00 PM	69740

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-2/11

Project: Roy SWD 3

Collection Date: 8/22/2022 10:26:00 AM

Lab ID: 2208E19-004

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	610	60		mg/Kg	20	8/30/2022 2:42:14 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/27/2022 1:02:25 AM	69775
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/27/2022 1:02:25 AM	69775
Surr: DNOP	84.6	21-129		%Rec	1	8/27/2022 1:02:25 AM	69775
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/25/2022 7:23:00 PM	69740
Surr: BFB	103	37.7-212		%Rec	1	8/25/2022 7:23:00 PM	69740
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	8/25/2022 7:23:00 PM	69740
Toluene	ND	0.048		mg/Kg	1	8/25/2022 7:23:00 PM	69740
Ethylbenzene	ND	0.048		mg/Kg	1	8/25/2022 7:23:00 PM	69740
Xylenes, Total	ND	0.095		mg/Kg	1	8/25/2022 7:23:00 PM	69740
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	8/25/2022 7:23:00 PM	69740

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-1/1

Project: Roy SWD 3

Collection Date: 8/22/2022 10:42:00 AM

Lab ID: 2208E19-005

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/30/2022 2:54:39 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/27/2022 1:13:21 AM	69775
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/27/2022 1:13:21 AM	69775
Surr: DNOP	104	21-129		%Rec	1	8/27/2022 1:13:21 AM	69775
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/25/2022 7:43:00 PM	69740
Surr: BFB	103	37.7-212		%Rec	1	8/25/2022 7:43:00 PM	69740
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	8/25/2022 7:43:00 PM	69740
Toluene	ND	0.050		mg/Kg	1	8/25/2022 7:43:00 PM	69740
Ethylbenzene	ND	0.050		mg/Kg	1	8/25/2022 7:43:00 PM	69740
Xylenes, Total	ND	0.10		mg/Kg	1	8/25/2022 7:43:00 PM	69740
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	8/25/2022 7:43:00 PM	69740

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-1/6

Project: Roy SWD 3

Collection Date: 8/22/2022 10:56:00 AM

Lab ID: 2208E19-006

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	370	60		mg/Kg	20	8/30/2022 3:07:04 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/27/2022 1:24:19 AM	69775
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/27/2022 1:24:19 AM	69775
Surr: DNOP	83.4	21-129		%Rec	1	8/27/2022 1:24:19 AM	69775
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/25/2022 8:03:00 PM	69740
Surr: BFB	103	37.7-212		%Rec	1	8/25/2022 8:03:00 PM	69740
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	8/25/2022 8:03:00 PM	69740
Toluene	ND	0.048		mg/Kg	1	8/25/2022 8:03:00 PM	69740
Ethylbenzene	ND	0.048		mg/Kg	1	8/25/2022 8:03:00 PM	69740
Xylenes, Total	ND	0.095		mg/Kg	1	8/25/2022 8:03:00 PM	69740
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	8/25/2022 8:03:00 PM	69740

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-3/1

Project: Roy SWD 3

Collection Date: 8/22/2022 12:02:00 PM

Lab ID: 2208E19-007

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/30/2022 3:19:29 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/27/2022 1:35:17 AM	69775
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/27/2022 1:35:17 AM	69775
Surr: DNOP	82.5	21-129		%Rec	1	8/27/2022 1:35:17 AM	69775
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/25/2022 8:22:00 PM	69740
Surr: BFB	101	37.7-212		%Rec	1	8/25/2022 8:22:00 PM	69740
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	8/25/2022 8:22:00 PM	69740
Toluene	ND	0.047		mg/Kg	1	8/25/2022 8:22:00 PM	69740
Ethylbenzene	ND	0.047		mg/Kg	1	8/25/2022 8:22:00 PM	69740
Xylenes, Total	ND	0.093		mg/Kg	1	8/25/2022 8:22:00 PM	69740
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	8/25/2022 8:22:00 PM	69740

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-3/4

Project: Roy SWD 3

Collection Date: 8/22/2022 1:30:00 PM

Lab ID: 2208E19-008

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	440	60		mg/Kg	20	8/30/2022 3:31:54 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/29/2022 3:20:27 PM	69807
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/29/2022 3:20:27 PM	69807
Surr: DNOP	88.8	21-129		%Rec	1	8/29/2022 3:20:27 PM	69807
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/26/2022 10:31:00 AM	69768
Surr: BFB	103	37.7-212		%Rec	1	8/26/2022 10:31:00 AM	69768
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	8/26/2022 10:31:00 AM	69768
Toluene	ND	0.049		mg/Kg	1	8/26/2022 10:31:00 AM	69768
Ethylbenzene	ND	0.049		mg/Kg	1	8/26/2022 10:31:00 AM	69768
Xylenes, Total	ND	0.097		mg/Kg	1	8/26/2022 10:31:00 AM	69768
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	8/26/2022 10:31:00 AM	69768

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-3/6

Project: Roy SWD 3

Collection Date: 8/22/2022 1:36:00 PM

Lab ID: 2208E19-009

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	440	60		mg/Kg	20	8/30/2022 3:44:19 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	8/29/2022 3:52:46 PM	69807
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/29/2022 3:52:46 PM	69807
Surr: DNOP	90.9	21-129		%Rec	1	8/29/2022 3:52:46 PM	69807
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/26/2022 11:30:00 AM	69768
Surr: BFB	104	37.7-212		%Rec	1	8/26/2022 11:30:00 AM	69768
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	8/26/2022 11:30:00 AM	69768
Toluene	ND	0.049		mg/Kg	1	8/26/2022 11:30:00 AM	69768
Ethylbenzene	ND	0.049		mg/Kg	1	8/26/2022 11:30:00 AM	69768
Xylenes, Total	ND	0.099		mg/Kg	1	8/26/2022 11:30:00 AM	69768
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/26/2022 11:30:00 AM	69768

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-4/1

Project: Roy SWD 3

Collection Date: 8/22/2022 2:10:00 PM

Lab ID: 2208E19-010

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	8/30/2022 11:27:22 AM	69853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/29/2022 4:24:51 PM	69807
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/29/2022 4:24:51 PM	69807
Surr: DNOP	87.3	21-129		%Rec	1	8/29/2022 4:24:51 PM	69807
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/26/2022 12:29:00 PM	69768
Surr: BFB	111	37.7-212		%Rec	1	8/26/2022 12:29:00 PM	69768
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	8/26/2022 12:29:00 PM	69768
Toluene	ND	0.050		mg/Kg	1	8/26/2022 12:29:00 PM	69768
Ethylbenzene	ND	0.050		mg/Kg	1	8/26/2022 12:29:00 PM	69768
Xylenes, Total	ND	0.10		mg/Kg	1	8/26/2022 12:29:00 PM	69768
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/26/2022 12:29:00 PM	69768

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-4/6

Project: Roy SWD 3

Collection Date: 8/22/2022 2:30:00 PM

Lab ID: 2208E19-011

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	80	60		mg/Kg	20	8/30/2022 11:39:43 AM	69853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/29/2022 4:35:44 PM	69807
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/29/2022 4:35:44 PM	69807
Surr: DNOP	94.3	21-129		%Rec	1	8/29/2022 4:35:44 PM	69807
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/26/2022 12:49:00 PM	69768
Surr: BFB	107	37.7-212		%Rec	1	8/26/2022 12:49:00 PM	69768
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	8/26/2022 12:49:00 PM	69768
Toluene	ND	0.049		mg/Kg	1	8/26/2022 12:49:00 PM	69768
Ethylbenzene	ND	0.049		mg/Kg	1	8/26/2022 12:49:00 PM	69768
Xylenes, Total	ND	0.098		mg/Kg	1	8/26/2022 12:49:00 PM	69768
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/26/2022 12:49:00 PM	69768

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-5/1

Project: Roy SWD 3

Collection Date: 8/22/2022 2:35:00 PM

Lab ID: 2208E19-012

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	8/30/2022 11:52:04 AM	69853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	8/29/2022 4:46:35 PM	69807
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/29/2022 4:46:35 PM	69807
Surr: DNOP	96.2	21-129		%Rec	1	8/29/2022 4:46:35 PM	69807
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/26/2022 1:08:00 PM	69768
Surr: BFB	106	37.7-212		%Rec	1	8/26/2022 1:08:00 PM	69768
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	8/26/2022 1:08:00 PM	69768
Toluene	ND	0.050		mg/Kg	1	8/26/2022 1:08:00 PM	69768
Ethylbenzene	ND	0.050		mg/Kg	1	8/26/2022 1:08:00 PM	69768
Xylenes, Total	ND	0.10		mg/Kg	1	8/26/2022 1:08:00 PM	69768
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	8/26/2022 1:08:00 PM	69768

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-5/6

Project: Roy SWD 3

Collection Date: 8/22/2022 2:45:00 PM

Lab ID: 2208E19-013

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	260	60		mg/Kg	20	8/30/2022 12:04:24 PM	69853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/29/2022 5:09:24 PM	69807
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/29/2022 5:09:24 PM	69807
Surr: DNOP	94.8	21-129		%Rec	1	8/29/2022 5:09:24 PM	69807
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/26/2022 1:28:00 PM	69768
Surr: BFB	106	37.7-212		%Rec	1	8/26/2022 1:28:00 PM	69768
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	8/26/2022 1:28:00 PM	69768
Toluene	ND	0.050		mg/Kg	1	8/26/2022 1:28:00 PM	69768
Ethylbenzene	ND	0.050		mg/Kg	1	8/26/2022 1:28:00 PM	69768
Xylenes, Total	ND	0.10		mg/Kg	1	8/26/2022 1:28:00 PM	69768
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/26/2022 1:28:00 PM	69768

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-6/1

Project: Roy SWD 3

Collection Date: 8/22/2022 3:02:00 PM

Lab ID: 2208E19-014

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	8/30/2022 12:16:46 PM	69853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	8/29/2022 5:20:15 PM	69807
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/29/2022 5:20:15 PM	69807
Surr: DNOP	95.3	21-129		%Rec	1	8/29/2022 5:20:15 PM	69807
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/26/2022 2:08:00 PM	69768
Surr: BFB	106	37.7-212		%Rec	1	8/26/2022 2:08:00 PM	69768
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	8/26/2022 2:08:00 PM	69768
Toluene	ND	0.049		mg/Kg	1	8/26/2022 2:08:00 PM	69768
Ethylbenzene	ND	0.049		mg/Kg	1	8/26/2022 2:08:00 PM	69768
Xylenes, Total	ND	0.097		mg/Kg	1	8/26/2022 2:08:00 PM	69768
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	8/26/2022 2:08:00 PM	69768

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-6/6

Project: Roy SWD 3

Collection Date: 8/22/2022 3:20:00 PM

Lab ID: 2208E19-015

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	940	61		mg/Kg	20	8/30/2022 12:29:07 PM	69853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/29/2022 5:31:05 PM	69807
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/29/2022 5:31:05 PM	69807
Surr: DNOP	89.8	21-129		%Rec	1	8/29/2022 5:31:05 PM	69807
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/26/2022 2:27:00 PM	69768
Surr: BFB	109	37.7-212		%Rec	1	8/26/2022 2:27:00 PM	69768
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	8/26/2022 2:27:00 PM	69768
Toluene	ND	0.048		mg/Kg	1	8/26/2022 2:27:00 PM	69768
Ethylbenzene	ND	0.048		mg/Kg	1	8/26/2022 2:27:00 PM	69768
Xylenes, Total	ND	0.095		mg/Kg	1	8/26/2022 2:27:00 PM	69768
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	8/26/2022 2:27:00 PM	69768

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

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

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Analytical Report

Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-6/7

Project: Roy SWD 3

Collection Date: 8/22/2022 3:24:00 PM

Lab ID: 2208E19-016

Matrix: SOIL

Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	670	61		mg/Kg	20	8/30/2022 12:49:05 PM	69853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/29/2022 6:18:48 PM	69807
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/29/2022 6:18:48 PM	69807
Surr: DNOP	99.6	21-129		%Rec	1	8/29/2022 6:18:48 PM	69807
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/26/2022 2:47:00 PM	69768
Surr: BFB	107	37.7-212		%Rec	1	8/26/2022 2:47:00 PM	69768
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	8/26/2022 2:47:00 PM	69768
Toluene	ND	0.048		mg/Kg	1	8/26/2022 2:47:00 PM	69768
Ethylbenzene	ND	0.048		mg/Kg	1	8/26/2022 2:47:00 PM	69768
Xylenes, Total	ND	0.097		mg/Kg	1	8/26/2022 2:47:00 PM	69768
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/26/2022 2:47:00 PM	69768

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

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

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

WO#: 2208E19

02-Sep-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-69853	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 69853	RunNo: 90679								
Prep Date: 8/30/2022	Analysis Date: 8/30/2022	SeqNo: 3240572	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-69853	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 69853	RunNo: 90679								
Prep Date: 8/30/2022	Analysis Date: 8/30/2022	SeqNo: 3240573	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

Sample ID: MB-69846	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 69846	RunNo: 90664								
Prep Date: 8/30/2022	Analysis Date: 8/30/2022	SeqNo: 3241292	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-69846	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 69846	RunNo: 90664								
Prep Date: 8/30/2022	Analysis Date: 8/30/2022	SeqNo: 3241294	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Qualifiers:

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

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

WO#: 2208E19

02-Sep-22

Client: EOG
Project: Roy SWD 3

Sample ID: LCS-69775	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 69775			RunNo: 90606						
Prep Date: 8/25/2022	Analysis Date: 8/26/2022			SeqNo: 3238776		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	15	50.00	0	92.8	64.4	127			
Surr: DNOP	4.3		5.000		85.2	21	129			

Sample ID: MB-69775	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 69775			RunNo: 90606						
Prep Date: 8/25/2022	Analysis Date: 8/26/2022			SeqNo: 3238777		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		84.1	21	129			

Sample ID: LCS-69807	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 69807			RunNo: 90634						
Prep Date: 8/26/2022	Analysis Date: 8/29/2022			SeqNo: 3238841		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	15	50.00	0	80.1	64.4	127			
Surr: DNOP	4.0		5.000		79.2	21	129			

Sample ID: MB-69807	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 69807			RunNo: 90634						
Prep Date: 8/26/2022	Analysis Date: 8/29/2022			SeqNo: 3238842		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	8.8		10.00		88.3	21	129			

Sample ID: LCS-69837	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 69837			RunNo: 90655						
Prep Date: 8/29/2022	Analysis Date: 8/30/2022			SeqNo: 3239736		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.9	21	129			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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#: 2208E19
02-Sep-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-69837	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 69837	RunNo: 90655								
Prep Date: 8/29/2022	Analysis Date: 8/30/2022	SeqNo: 3239737		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	21	129			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix interference
- B

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2208E19

02-Sep-22

Client: EOG
Project: Roy SWD 3

Sample ID: mb-69740	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 69740	RunNo: 90581								
Prep Date: 8/24/2022	Analysis Date: 8/25/2022	SeqNo: 3235756 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.6	37.7	212			

Sample ID: lcs-69740	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 69740	RunNo: 90581								
Prep Date: 8/24/2022	Analysis Date: 8/25/2022	SeqNo: 3235757 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	2000		1000		196	37.7	212			

Sample ID: lcs-69768	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 69768	RunNo: 90614								
Prep Date: 8/25/2022	Analysis Date: 8/26/2022	SeqNo: 3237469 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	2300		1000		227	37.7	212			S

Sample ID: mb-69768	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 69768	RunNo: 90614								
Prep Date: 8/25/2022	Analysis Date: 8/26/2022	SeqNo: 3237470 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	970		1000		97.0	37.7	212			

Qualifiers:

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

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

WO#: 2208E19

02-Sep-22

Client: EOG
Project: Roy SWD 3

Sample ID: mb-69740	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 69740	RunNo: 90581								
Prep Date: 8/24/2022	Analysis Date: 8/25/2022	SeqNo: 3235803 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	70	130			

Sample ID: LCS-69740	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 69740	RunNo: 90581								
Prep Date: 8/24/2022	Analysis Date: 8/25/2022	SeqNo: 3235804 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	93.4	80	120			
Toluene	0.96	0.050	1.000	0	96.0	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.1	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	70	130			

Sample ID: lcs-69768	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 69768	RunNo: 90614								
Prep Date: 8/25/2022	Analysis Date: 8/26/2022	SeqNo: 3237522 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	80.9	80	120			
Toluene	0.83	0.050	1.000	0	83.1	80	120			
Ethylbenzene	0.85	0.050	1.000	0	84.5	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	70	130			

Sample ID: mb-69768	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 69768	RunNo: 90614								
Prep Date: 8/25/2022	Analysis Date: 8/26/2022	SeqNo: 3237523 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		95.3	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2208E19

RcptNo: 1

Received By: Juan Rojas

8/24/2022 7:15:00 AM

Juan Rojas

Completed By: Juan Rojas

8/24/2022 7:25:37 AM

Juan Rojas

Reviewed By:

JR 8-24-22

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *JR 8/24/22*

Special Handling (if applicable)

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

Person Notified:

Date

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

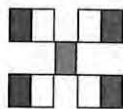
Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Not Present			

pg 2 of 2



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Chain-of-Custody Record				Turn-Around Time: <u>EOJ, s day TAT</u>			
Client: EOG-Artesia / Ranger Env.				<input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush Project Name: <u>Roy SWD #3</u>			
Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210				Project #: 5375			
Ranger: PO Box 201179, Austin TX 78720				Project Manager: W. Kierdorf			
Phone #: 521-335-1785				Sampler: <u>J. Martinez</u>			
email or Fax#: Will@RangerEnv.com				On Ice: <input type="checkbox"/> Yes <input type="checkbox"/> No			
QA/QC Package: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)				# of Coolers: <u>1</u>			
Accreditation: <input type="checkbox"/> Az Compliance				Cooler Temp (including CP): <u>1.60 = 1.6</u>			
<input checked="" type="checkbox"/> NELAC				Container Type and #			
<input checked="" type="checkbox"/> EDD (Type) Excel				Preservative Type			
				HEAL No.			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	
8-22-22	0948	Soil	RTP-2/1	1x42)ar	ICE	2708E19	
	1000		RTP-2/6			-001	
	1020		RTP-2/9			-002	
	1026		RTP-2/11			-003	
	1042		RTP-2/1			-004	
	1056		RTP-2/6			-005	
	1202		RTP-3/1			-006	
	1330		RTP-3/4			-007	
	1336		RTP-3/6			-008	
	1410		RTP-4/1			-009	
	1430		RTP-4/6			-010	
	1432		RTP-5/1			-011	
						-012	
Date:	Time:	Relinquished by:		Via:	Date	Time	
8-22-22	0740	J. Martinez		Admin	8/22	130	
Date:	Time:	Relinquished by:		Via:	Date	Time	
8-22-22	1900	J. Martinez		Admin	8/22	7:15	

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



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

October 13, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Roy SWD 3

OrderNo.: 2209E05

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 32 sample(s) on 9/27/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 07, 2022.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-1

Project: Roy SWD 3

Collection Date: 9/23/2022 2:00:00 PM

Lab ID: 2209E05-001

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	390	60		mg/Kg	20	10/1/2022 2:10:43 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 3:42:34 AM	70443
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2022 3:42:34 AM	70443
Surr: DNOP	107	21-129		%Rec	1	9/30/2022 3:42:34 AM	70443
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 8:13:32 PM	70438
Surr: BFB	94.1	37.7-212		%Rec	1	9/28/2022 8:13:32 PM	70438
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/28/2022 8:13:32 PM	70438
Toluene	ND	0.049		mg/Kg	1	9/28/2022 8:13:32 PM	70438
Ethylbenzene	ND	0.049		mg/Kg	1	9/28/2022 8:13:32 PM	70438
Xylenes, Total	ND	0.099		mg/Kg	1	9/28/2022 8:13:32 PM	70438
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/28/2022 8:13:32 PM	70438

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

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

Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-2

Project: Roy SWD 3

Collection Date: 9/23/2022 2:02:00 PM

Lab ID: 2209E05-002

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1000	61		mg/Kg	20	10/1/2022 2:47:56 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 3:53:15 AM	70443
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 3:53:15 AM	70443
Surr: DNOP	95.6	21-129		%Rec	1	9/30/2022 3:53:15 AM	70443
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/28/2022 8:36:52 PM	70438
Surr: BFB	93.3	37.7-212		%Rec	1	9/28/2022 8:36:52 PM	70438
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/28/2022 8:36:52 PM	70438
Toluene	ND	0.050		mg/Kg	1	9/28/2022 8:36:52 PM	70438
Ethylbenzene	ND	0.050		mg/Kg	1	9/28/2022 8:36:52 PM	70438
Xylenes, Total	ND	0.10		mg/Kg	1	9/28/2022 8:36:52 PM	70438
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/28/2022 8:36:52 PM	70438

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-3

Project: Roy SWD 3

Collection Date: 9/23/2022 2:04:00 PM

Lab ID: 2209E05-003

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1200	60		mg/Kg	20	10/1/2022 3:00:21 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 4:03:53 AM	70443
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 4:03:53 AM	70443
Surr: DNOP	91.8	21-129		%Rec	1	9/30/2022 4:03:53 AM	70443
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/28/2022 9:00:20 PM	70438
Surr: BFB	94.2	37.7-212		%Rec	1	9/28/2022 9:00:20 PM	70438
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/28/2022 9:00:20 PM	70438
Toluene	ND	0.050		mg/Kg	1	9/28/2022 9:00:20 PM	70438
Ethylbenzene	ND	0.050		mg/Kg	1	9/28/2022 9:00:20 PM	70438
Xylenes, Total	ND	0.10		mg/Kg	1	9/28/2022 9:00:20 PM	70438
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/28/2022 9:00:20 PM	70438

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

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

Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-4

Project: Roy SWD 3

Collection Date: 9/23/2022 2:06:00 PM

Lab ID: 2209E05-004

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1200	60		mg/Kg	20	10/1/2022 3:12:46 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 4:14:31 AM	70443
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 4:14:31 AM	70443
Surr: DNOP	87.6	21-129		%Rec	1	9/30/2022 4:14:31 AM	70443
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/28/2022 9:23:45 PM	70438
Surr: BFB	92.6	37.7-212		%Rec	1	9/28/2022 9:23:45 PM	70438
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/28/2022 9:23:45 PM	70438
Toluene	ND	0.048		mg/Kg	1	9/28/2022 9:23:45 PM	70438
Ethylbenzene	ND	0.048		mg/Kg	1	9/28/2022 9:23:45 PM	70438
Xylenes, Total	ND	0.097		mg/Kg	1	9/28/2022 9:23:45 PM	70438
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/28/2022 9:23:45 PM	70438

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-5

Project: Roy SWD 3

Collection Date: 9/23/2022 2:08:00 PM

Lab ID: 2209E05-005

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1000	60		mg/Kg	20	10/1/2022 3:25:11 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 4:25:09 AM	70443
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 4:25:09 AM	70443
Surr: DNOP	87.8	21-129		%Rec	1	9/30/2022 4:25:09 AM	70443
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 9:47:18 PM	70438
Surr: BFB	91.3	37.7-212		%Rec	1	9/28/2022 9:47:18 PM	70438
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/28/2022 9:47:18 PM	70438
Toluene	ND	0.049		mg/Kg	1	9/28/2022 9:47:18 PM	70438
Ethylbenzene	ND	0.049		mg/Kg	1	9/28/2022 9:47:18 PM	70438
Xylenes, Total	ND	0.099		mg/Kg	1	9/28/2022 9:47:18 PM	70438
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	9/28/2022 9:47:18 PM	70438

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-6

Project: Roy SWD 3

Collection Date: 9/23/2022 2:10:00 PM

Lab ID: 2209E05-006

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	950	60		mg/Kg	20	10/1/2022 3:37:36 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 12:43:05 AM	70446
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 12:43:05 AM	70446
Surr: DNOP	112	21-129		%Rec	1	9/30/2022 12:43:05 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 10:41:00 PM	70439
Surr: BFB	104	37.7-212		%Rec	1	9/28/2022 10:41:00 PM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/28/2022 10:41:00 PM	70439
Toluene	ND	0.049		mg/Kg	1	9/28/2022 10:41:00 PM	70439
Ethylbenzene	ND	0.049		mg/Kg	1	9/28/2022 10:41:00 PM	70439
Xylenes, Total	ND	0.097		mg/Kg	1	9/28/2022 10:41:00 PM	70439
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	9/28/2022 10:41:00 PM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-7

Project: Roy SWD 3

Collection Date: 9/23/2022 2:12:00 PM

Lab ID: 2209E05-007

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	470	60		mg/Kg	20	10/1/2022 3:50:01 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 1:26:49 AM	70446
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/30/2022 1:26:49 AM	70446
Surr: DNOP	105	21-129		%Rec	1	9/30/2022 1:26:49 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 11:40:00 PM	70439
Surr: BFB	111	37.7-212		%Rec	1	9/28/2022 11:40:00 PM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/28/2022 11:40:00 PM	70439
Toluene	ND	0.049		mg/Kg	1	9/28/2022 11:40:00 PM	70439
Ethylbenzene	ND	0.049		mg/Kg	1	9/28/2022 11:40:00 PM	70439
Xylenes, Total	ND	0.098		mg/Kg	1	9/28/2022 11:40:00 PM	70439
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	9/28/2022 11:40:00 PM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-8

Project: Roy SWD 3

Collection Date: 9/23/2022 2:14:00 PM

Lab ID: 2209E05-008

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1000	60		mg/Kg	20	10/1/2022 4:27:14 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 1:41:15 AM	70446
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/30/2022 1:41:15 AM	70446
Surr: DNOP	107	21-129		%Rec	1	9/30/2022 1:41:15 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/29/2022 12:39:00 AM	70439
Surr: BFB	106	37.7-212		%Rec	1	9/29/2022 12:39:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	9/29/2022 12:39:00 AM	70439
Toluene	ND	0.049		mg/Kg	1	9/29/2022 12:39:00 AM	70439
Ethylbenzene	ND	0.049		mg/Kg	1	9/29/2022 12:39:00 AM	70439
Xylenes, Total	ND	0.098		mg/Kg	1	9/29/2022 12:39:00 AM	70439
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	9/29/2022 12:39:00 AM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-9

Project: Roy SWD 3

Collection Date: 9/23/2022 2:16:00 PM

Lab ID: 2209E05-009

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1200	60		mg/Kg	20	10/1/2022 4:39:38 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 1:55:41 AM	70446
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 1:55:41 AM	70446
Surr: DNOP	75.5	21-129		%Rec	1	9/30/2022 1:55:41 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/29/2022 12:59:00 AM	70439
Surr: BFB	101	37.7-212		%Rec	1	9/29/2022 12:59:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	9/29/2022 12:59:00 AM	70439
Toluene	ND	0.046		mg/Kg	1	9/29/2022 12:59:00 AM	70439
Ethylbenzene	ND	0.046		mg/Kg	1	9/29/2022 12:59:00 AM	70439
Xylenes, Total	ND	0.093		mg/Kg	1	9/29/2022 12:59:00 AM	70439
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	9/29/2022 12:59:00 AM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-10

Project: Roy SWD 3

Collection Date: 9/23/2022 2:18:00 PM

Lab ID: 2209E05-010

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1000	60		mg/Kg	20	10/1/2022 4:52:03 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 2:10:07 AM	70446
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2022 2:10:07 AM	70446
Surr: DNOP	85.9	21-129		%Rec	1	9/30/2022 2:10:07 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 1:18:00 AM	70439
Surr: BFB	103	37.7-212		%Rec	1	9/29/2022 1:18:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/29/2022 1:18:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 1:18:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 1:18:00 AM	70439
Xylenes, Total	ND	0.095		mg/Kg	1	9/29/2022 1:18:00 AM	70439
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	9/29/2022 1:18:00 AM	70439

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

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

Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-11

Project: Roy SWD 3

Collection Date: 9/23/2022 2:20:00 PM

Lab ID: 2209E05-011

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	680	60		mg/Kg	20	10/1/2022 5:04:28 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 2:24:31 AM	70446
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2022 2:24:31 AM	70446
Surr: DNOP	99.0	21-129		%Rec	1	9/30/2022 2:24:31 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/29/2022 1:38:00 AM	70439
Surr: BFB	100	37.7-212		%Rec	1	9/29/2022 1:38:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/29/2022 1:38:00 AM	70439
Toluene	ND	0.047		mg/Kg	1	9/29/2022 1:38:00 AM	70439
Ethylbenzene	ND	0.047		mg/Kg	1	9/29/2022 1:38:00 AM	70439
Xylenes, Total	ND	0.095		mg/Kg	1	9/29/2022 1:38:00 AM	70439
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	9/29/2022 1:38:00 AM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-12

Project: Roy SWD 3

Collection Date: 9/23/2022 2:22:00 PM

Lab ID: 2209E05-012

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	860	60		mg/Kg	20	10/1/2022 5:16:53 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 2:38:51 AM	70446
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2022 2:38:51 AM	70446
Surr: DNOP	70.8	21-129		%Rec	1	9/30/2022 2:38:51 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/29/2022 1:57:00 AM	70439
Surr: BFB	103	37.7-212		%Rec	1	9/29/2022 1:57:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	9/29/2022 1:57:00 AM	70439
Toluene	ND	0.050		mg/Kg	1	9/29/2022 1:57:00 AM	70439
Ethylbenzene	ND	0.050		mg/Kg	1	9/29/2022 1:57:00 AM	70439
Xylenes, Total	ND	0.099		mg/Kg	1	9/29/2022 1:57:00 AM	70439
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	9/29/2022 1:57:00 AM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-13

Project: Roy SWD 3

Collection Date: 9/23/2022 2:24:00 PM

Lab ID: 2209E05-013

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	630	60		mg/Kg	20	10/1/2022 5:29:18 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 2:53:15 AM	70446
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2022 2:53:15 AM	70446
Surr: DNOP	87.9	21-129		%Rec	1	9/30/2022 2:53:15 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/29/2022 2:17:00 AM	70439
Surr: BFB	107	37.7-212		%Rec	1	9/29/2022 2:17:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	9/29/2022 2:17:00 AM	70439
Toluene	ND	0.050		mg/Kg	1	9/29/2022 2:17:00 AM	70439
Ethylbenzene	ND	0.050		mg/Kg	1	9/29/2022 2:17:00 AM	70439
Xylenes, Total	ND	0.099		mg/Kg	1	9/29/2022 2:17:00 AM	70439
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	9/29/2022 2:17:00 AM	70439

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

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

Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-14

Project: Roy SWD 3

Collection Date: 9/23/2022 2:26:00 PM

Lab ID: 2209E05-014

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	650	60		mg/Kg	20	10/3/2022 9:25:41 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 3:07:32 AM	70446
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/30/2022 3:07:32 AM	70446
Surr: DNOP	80.3	21-129		%Rec	1	9/30/2022 3:07:32 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 2:37:00 AM	70439
Surr: BFB	108	37.7-212		%Rec	1	9/29/2022 2:37:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/29/2022 2:37:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 2:37:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 2:37:00 AM	70439
Xylenes, Total	ND	0.096		mg/Kg	1	9/29/2022 2:37:00 AM	70439
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	9/29/2022 2:37:00 AM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-15

Project: Roy SWD 3

Collection Date: 9/23/2022 2:28:00 PM

Lab ID: 2209E05-015

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1000	61		mg/Kg	20	10/3/2022 10:02:55 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 3:21:42 AM	70446
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2022 3:21:42 AM	70446
Surr: DNOP	80.3	21-129		%Rec	1	9/30/2022 3:21:42 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/29/2022 2:56:00 AM	70439
Surr: BFB	108	37.7-212		%Rec	1	9/29/2022 2:56:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	9/29/2022 2:56:00 AM	70439
Toluene	ND	0.050		mg/Kg	1	9/29/2022 2:56:00 AM	70439
Ethylbenzene	ND	0.050		mg/Kg	1	9/29/2022 2:56:00 AM	70439
Xylenes, Total	ND	0.10		mg/Kg	1	9/29/2022 2:56:00 AM	70439
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	9/29/2022 2:56:00 AM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-16

Project: Roy SWD 3

Collection Date: 9/23/2022 2:30:00 PM

Lab ID: 2209E05-016

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	570	60		mg/Kg	20	10/3/2022 10:15:19 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 3:35:59 AM	70446
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 3:35:59 AM	70446
Surr: DNOP	75.9	21-129		%Rec	1	9/30/2022 3:35:59 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 3:36:00 AM	70439
Surr: BFB	104	37.7-212		%Rec	1	9/29/2022 3:36:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/29/2022 3:36:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 3:36:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 3:36:00 AM	70439
Xylenes, Total	ND	0.097		mg/Kg	1	9/29/2022 3:36:00 AM	70439
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	9/29/2022 3:36:00 AM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-17

Project: Roy SWD 3

Collection Date: 9/23/2022 2:32:00 PM

Lab ID: 2209E05-017

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1000	59		mg/Kg	20	10/3/2022 10:27:44 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 3:50:04 AM	70446
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 3:50:04 AM	70446
Surr: DNOP	79.9	21-129		%Rec	1	9/30/2022 3:50:04 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 3:55:00 AM	70439
Surr: BFB	100	37.7-212		%Rec	1	9/29/2022 3:55:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/29/2022 3:55:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 3:55:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 3:55:00 AM	70439
Xylenes, Total	ND	0.095		mg/Kg	1	9/29/2022 3:55:00 AM	70439
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	9/29/2022 3:55:00 AM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-18

Project: Roy SWD 3

Collection Date: 9/23/2022 2:34:00 PM

Lab ID: 2209E05-018

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1300	60		mg/Kg	20	10/3/2022 10:40:09 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 4:04:08 AM	70446
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 4:04:08 AM	70446
Surr: DNOP	89.9	21-129		%Rec	1	9/30/2022 4:04:08 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/29/2022 4:15:00 AM	70439
Surr: BFB	106	37.7-212		%Rec	1	9/29/2022 4:15:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/29/2022 4:15:00 AM	70439
Toluene	ND	0.047		mg/Kg	1	9/29/2022 4:15:00 AM	70439
Ethylbenzene	ND	0.047		mg/Kg	1	9/29/2022 4:15:00 AM	70439
Xylenes, Total	ND	0.095		mg/Kg	1	9/29/2022 4:15:00 AM	70439
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	9/29/2022 4:15:00 AM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-19

Project: Roy SWD 3

Collection Date: 9/23/2022 2:36:00 PM

Lab ID: 2209E05-019

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	900	60		mg/Kg	20	10/3/2022 11:42:14 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 4:18:20 AM	70446
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/30/2022 4:18:20 AM	70446
Surr: DNOP	79.9	21-129		%Rec	1	9/30/2022 4:18:20 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 4:35:00 AM	70439
Surr: BFB	104	37.7-212		%Rec	1	9/29/2022 4:35:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/29/2022 4:35:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 4:35:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 4:35:00 AM	70439
Xylenes, Total	ND	0.097		mg/Kg	1	9/29/2022 4:35:00 AM	70439
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	9/29/2022 4:35:00 AM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: W-1

Project: Roy SWD 3

Collection Date: 9/23/2022 2:38:00 PM

Lab ID: 2209E05-020

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	450	60		mg/Kg	20	10/3/2022 11:54:38 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 4:32:16 AM	70446
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2022 4:32:16 AM	70446
Surr: DNOP	76.3	21-129		%Rec	1	9/30/2022 4:32:16 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 4:54:00 AM	70439
Surr: BFB	105	37.7-212		%Rec	1	9/29/2022 4:54:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/29/2022 4:54:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 4:54:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 4:54:00 AM	70439
Xylenes, Total	ND	0.095		mg/Kg	1	9/29/2022 4:54:00 AM	70439
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	9/29/2022 4:54:00 AM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: W-2

Project: Roy SWD 3

Collection Date: 9/23/2022 2:40:00 PM

Lab ID: 2209E05-021

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	850	60		mg/Kg	20	10/3/2022 12:07:02 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 4:46:15 AM	70446
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 4:46:15 AM	70446
Surr: DNOP	79.7	21-129		%Rec	1	9/30/2022 4:46:15 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 5:14:00 AM	70439
Surr: BFB	102	37.7-212		%Rec	1	9/29/2022 5:14:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/29/2022 5:14:00 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 5:14:00 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 5:14:00 AM	70439
Xylenes, Total	ND	0.096		mg/Kg	1	9/29/2022 5:14:00 AM	70439
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	9/29/2022 5:14:00 AM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: W-3

Project: Roy SWD 3

Collection Date: 9/23/2022 2:42:00 PM

Lab ID: 2209E05-022

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	480	60		mg/Kg	20	10/3/2022 12:19:26 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 4:59:59 AM	70446
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2022 4:59:59 AM	70446
Surr: DNOP	91.2	21-129		%Rec	1	9/30/2022 4:59:59 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/29/2022 5:34:00 AM	70439
Surr: BFB	98.8	37.7-212		%Rec	1	9/29/2022 5:34:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	9/29/2022 5:34:00 AM	70439
Toluene	ND	0.047		mg/Kg	1	9/29/2022 5:34:00 AM	70439
Ethylbenzene	ND	0.047		mg/Kg	1	9/29/2022 5:34:00 AM	70439
Xylenes, Total	ND	0.094		mg/Kg	1	9/29/2022 5:34:00 AM	70439
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	9/29/2022 5:34:00 AM	70439

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: W-4

Project: Roy SWD 3

Collection Date: 9/23/2022 2:44:00 PM

Lab ID: 2209E05-023

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1500	60		mg/Kg	20	10/3/2022 12:31:51 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 5:13:51 AM	70446
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 5:13:51 AM	70446
Surr: DNOP	82.8	21-129		%Rec	1	9/30/2022 5:13:51 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/29/2022 5:53:00 AM	70439
Surr: BFB	105	37.7-212		%Rec	1	9/29/2022 5:53:00 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	9/29/2022 5:53:00 AM	70439
Toluene	ND	0.049		mg/Kg	1	9/29/2022 5:53:00 AM	70439
Ethylbenzene	ND	0.049		mg/Kg	1	9/29/2022 5:53:00 AM	70439
Xylenes, Total	ND	0.099		mg/Kg	1	9/29/2022 5:53:00 AM	70439
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	9/29/2022 5:53:00 AM	70439

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

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

Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: W-5

Project: Roy SWD 3

Collection Date: 9/23/2022 2:46:00 PM

Lab ID: 2209E05-024

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	890	60		mg/Kg	20	10/3/2022 12:44:16 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 5:27:22 AM	70446
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 5:27:22 AM	70446
Surr: DNOP	55.0	21-129		%Rec	1	9/30/2022 5:27:22 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/29/2022 4:49:01 AM	70439
Surr: BFB	93.4	37.7-212		%Rec	1	9/29/2022 4:49:01 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	9/29/2022 4:49:01 AM	70439
Toluene	ND	0.046		mg/Kg	1	9/29/2022 4:49:01 AM	70439
Ethylbenzene	ND	0.046		mg/Kg	1	9/29/2022 4:49:01 AM	70439
Xylenes, Total	ND	0.092		mg/Kg	1	9/29/2022 4:49:01 AM	70439
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	9/29/2022 4:49:01 AM	70439

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

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

Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: W-6

Project: Roy SWD 3

Collection Date: 9/23/2022 2:46:00 PM

Lab ID: 2209E05-025

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	2000	60		mg/Kg	20	10/3/2022 12:56:41 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	9/30/2022 5:40:57 AM	70446
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/30/2022 5:40:57 AM	70446
Surr: DNOP	77.4	21-129		%Rec	1	9/30/2022 5:40:57 AM	70446
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/29/2022 5:36:15 AM	70439
Surr: BFB	93.6	37.7-212		%Rec	1	9/29/2022 5:36:15 AM	70439
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/29/2022 5:36:15 AM	70439
Toluene	ND	0.048		mg/Kg	1	9/29/2022 5:36:15 AM	70439
Ethylbenzene	ND	0.048		mg/Kg	1	9/29/2022 5:36:15 AM	70439
Xylenes, Total	ND	0.096		mg/Kg	1	9/29/2022 5:36:15 AM	70439
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	9/29/2022 5:36:15 AM	70439

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

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

Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: W-7

Project: Roy SWD 3

Collection Date: 9/23/2022 2:48:00 PM

Lab ID: 2209E05-026

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1700	60		mg/Kg	20	10/3/2022 1:09:05 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/29/2022 11:13:27 AM	70465
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/29/2022 11:13:27 AM	70465
Surr: DNOP	101	21-129		%Rec	1	9/29/2022 11:13:27 AM	70465
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/29/2022 12:48:00 PM	70460
Surr: BFB	106	37.7-212		%Rec	1	9/29/2022 12:48:00 PM	70460
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	9/29/2022 12:48:00 PM	70460
Toluene	ND	0.050		mg/Kg	1	9/29/2022 12:48:00 PM	70460
Ethylbenzene	ND	0.050		mg/Kg	1	9/29/2022 12:48:00 PM	70460
Xylenes, Total	ND	0.10		mg/Kg	1	9/29/2022 12:48:00 PM	70460
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	9/29/2022 12:48:00 PM	70460

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-2W/2

Project: Roy SWD 3

Collection Date: 9/23/2022 11:50:00 AM

Lab ID: 2209E05-027

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	160	60		mg/Kg	20	10/3/2022 1:46:19 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/29/2022 11:53:53 AM	70465
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/29/2022 11:53:53 AM	70465
Surr: DNOP	106	21-129		%Rec	1	9/29/2022 11:53:53 AM	70465
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/29/2022 2:07:00 PM	70460
Surr: BFB	105	37.7-212		%Rec	1	9/29/2022 2:07:00 PM	70460
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	9/29/2022 2:07:00 PM	70460
Toluene	ND	0.050		mg/Kg	1	9/29/2022 2:07:00 PM	70460
Ethylbenzene	ND	0.050		mg/Kg	1	9/29/2022 2:07:00 PM	70460
Xylenes, Total	ND	0.099		mg/Kg	1	9/29/2022 2:07:00 PM	70460
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	9/29/2022 2:07:00 PM	70460

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-2W/4

Project: Roy SWD 3

Collection Date: 9/23/2022 12:00:00 PM

Lab ID: 2209E05-028

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	590	60		mg/Kg	20	10/3/2022 1:58:44 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/29/2022 12:07:30 PM	70465
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/29/2022 12:07:30 PM	70465
Surr: DNOP	101	21-129		%Rec	1	9/29/2022 12:07:30 PM	70465
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/29/2022 3:05:00 PM	70460
Surr: BFB	105	37.7-212		%Rec	1	9/29/2022 3:05:00 PM	70460
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/29/2022 3:05:00 PM	70460
Toluene	ND	0.047		mg/Kg	1	9/29/2022 3:05:00 PM	70460
Ethylbenzene	ND	0.047		mg/Kg	1	9/29/2022 3:05:00 PM	70460
Xylenes, Total	ND	0.094		mg/Kg	1	9/29/2022 3:05:00 PM	70460
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	9/29/2022 3:05:00 PM	70460

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-2N/1

Project: Roy SWD 3

Collection Date: 9/23/2022 1:07:00 PM

Lab ID: 2209E05-029

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	10/3/2022 2:11:10 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/29/2022 12:21:03 PM	70465
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/29/2022 12:21:03 PM	70465
Surr: DNOP	115	21-129		%Rec	1	9/29/2022 12:21:03 PM	70465
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/29/2022 3:25:00 PM	70460
Surr: BFB	103	37.7-212		%Rec	1	9/29/2022 3:25:00 PM	70460
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/29/2022 3:25:00 PM	70460
Toluene	ND	0.047		mg/Kg	1	9/29/2022 3:25:00 PM	70460
Ethylbenzene	ND	0.047		mg/Kg	1	9/29/2022 3:25:00 PM	70460
Xylenes, Total	ND	0.094		mg/Kg	1	9/29/2022 3:25:00 PM	70460
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	9/29/2022 3:25:00 PM	70460

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-2N/4

Project: Roy SWD 3

Collection Date: 9/23/2022 1:22:00 PM

Lab ID: 2209E05-030

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	95	60		mg/Kg	20	10/3/2022 2:23:35 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/29/2022 12:34:33 PM	70465
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/29/2022 12:34:33 PM	70465
Surr: DNOP	89.0	21-129		%Rec	1	9/29/2022 12:34:33 PM	70465
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/29/2022 3:45:00 PM	70460
Surr: BFB	107	37.7-212		%Rec	1	9/29/2022 3:45:00 PM	70460
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	9/29/2022 3:45:00 PM	70460
Toluene	ND	0.049		mg/Kg	1	9/29/2022 3:45:00 PM	70460
Ethylbenzene	ND	0.049		mg/Kg	1	9/29/2022 3:45:00 PM	70460
Xylenes, Total	ND	0.097		mg/Kg	1	9/29/2022 3:45:00 PM	70460
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	9/29/2022 3:45:00 PM	70460

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-6N/1

Project: Roy SWD 3

Collection Date: 9/23/2022 2:16:00 PM

Lab ID: 2209E05-031

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	10/3/2022 2:36:00 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	62	14		mg/Kg	1	9/29/2022 12:48:10 PM	70465
Motor Oil Range Organics (MRO)	95	48		mg/Kg	1	9/29/2022 12:48:10 PM	70465
Surr: DNOP	110	21-129		%Rec	1	9/29/2022 12:48:10 PM	70465
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/29/2022 4:04:00 PM	70460
Surr: BFB	103	37.7-212		%Rec	1	9/29/2022 4:04:00 PM	70460
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	9/29/2022 4:04:00 PM	70460
Toluene	ND	0.046		mg/Kg	1	9/29/2022 4:04:00 PM	70460
Ethylbenzene	ND	0.046		mg/Kg	1	9/29/2022 4:04:00 PM	70460
Xylenes, Total	ND	0.093		mg/Kg	1	9/29/2022 4:04:00 PM	70460
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	9/29/2022 4:04:00 PM	70460

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

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

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Analytical Report

Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: RTP-6N/4

Project: Roy SWD 3

Collection Date: 9/23/2022 2:22:00 PM

Lab ID: 2209E05-032

Matrix: SOIL

Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	10/3/2022 2:48:25 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/29/2022 1:15:16 PM	70465
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/29/2022 1:15:16 PM	70465
Surr: DNOP	92.9	21-129		%Rec	1	9/29/2022 1:15:16 PM	70465
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/29/2022 4:24:00 PM	70460
Surr: BFB	102	37.7-212		%Rec	1	9/29/2022 4:24:00 PM	70460
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	9/29/2022 4:24:00 PM	70460
Toluene	ND	0.047		mg/Kg	1	9/29/2022 4:24:00 PM	70460
Ethylbenzene	ND	0.047		mg/Kg	1	9/29/2022 4:24:00 PM	70460
Xylenes, Total	ND	0.094		mg/Kg	1	9/29/2022 4:24:00 PM	70460
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	9/29/2022 4:24:00 PM	70460

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

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

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

WO#: 2209E05

13-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-70532	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70532	RunNo: 91459								
Prep Date: 9/30/2022	Analysis Date: 10/1/2022	SeqNo: 3275048	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70532	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70532	RunNo: 91459								
Prep Date: 9/30/2022	Analysis Date: 10/1/2022	SeqNo: 3275049	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.4	90	110			

Sample ID: MB-70539	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70539	RunNo: 91495								
Prep Date: 10/3/2022	Analysis Date: 10/3/2022	SeqNo: 3277087	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70539	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70539	RunNo: 91495								
Prep Date: 10/3/2022	Analysis Date: 10/3/2022	SeqNo: 3277088	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.9	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2209E05

13-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-70465	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 70465	RunNo: 91420								
Prep Date: 9/28/2022	Analysis Date: 9/29/2022	SeqNo: 3273391			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		118	21	129			

Sample ID: LCS-70465	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 70465	RunNo: 91420								
Prep Date: 9/28/2022	Analysis Date: 9/29/2022	SeqNo: 3273393			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.5	64.4	127			
Surr: DNOP	4.7		5.000		95.0	21	129			

Sample ID: MB-70446	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 70446	RunNo: 91420								
Prep Date: 9/27/2022	Analysis Date: 9/30/2022	SeqNo: 3273492			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.4	21	129			

Sample ID: LCS-70446	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 70446	RunNo: 91420								
Prep Date: 9/27/2022	Analysis Date: 9/30/2022	SeqNo: 3273494			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	50.00	0	93.5	64.4	127			
Surr: DNOP	4.5		5.000		90.2	21	129			

Sample ID: LCS-70443	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 70443	RunNo: 91439								
Prep Date: 9/27/2022	Analysis Date: 9/30/2022	SeqNo: 3274443			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	15	50.00	0	74.5	64.4	127			
Surr: DNOP	4.2		5.000		84.9	21	129			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2209E05
13-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: MB-70443	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 70443	RunNo: 91439								
Prep Date: 9/27/2022	Analysis Date: 9/30/2022	SeqNo: 3274446		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	14		10.00		137	21	129			S

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix interference
- B

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2209E05

13-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: ics-70439	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 70439				RunNo: 91349					
Prep Date: 9/27/2022	Analysis Date: 9/28/2022				SeqNo: 3271475	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	72.3	137			
Surr: BFB	2200		1000		222	37.7	212			S

Sample ID: mb-70439	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 70439				RunNo: 91349					
Prep Date: 9/27/2022	Analysis Date: 9/28/2022				SeqNo: 3271477	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	37.7	212			

Sample ID: LCS-70438	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 70438				RunNo: 91394					
Prep Date: 9/27/2022	Analysis Date: 9/28/2022				SeqNo: 3272041	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.8	72.3	137			
Surr: BFB	1900		1000		191	37.7	212			

Sample ID: mb-70438	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 70438				RunNo: 91394					
Prep Date: 9/27/2022	Analysis Date: 9/28/2022				SeqNo: 3272043	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.8	37.7	212			

Sample ID: ics-70460	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 70460				RunNo: 91419					
Prep Date: 9/28/2022	Analysis Date: 9/29/2022				SeqNo: 3272915	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	72.3	137			
Surr: BFB	2400		1000		237	37.7	212			S

Sample ID: mb-70460	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 70460				RunNo: 91419					
Prep Date: 9/28/2022	Analysis Date: 9/29/2022				SeqNo: 3272916	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209E05

13-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: mb-70460	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 70460	RunNo: 91419								
Prep Date: 9/28/2022	Analysis Date: 9/29/2022	SeqNo: 3272916	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2209E05

13-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: Ics-70439	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 70439			RunNo: 91349						
Prep Date: 9/27/2022	Analysis Date: 9/28/2022			SeqNo: 3271548		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	80	120			
Toluene	0.95	0.050	1.000	0	94.8	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.9	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.9	70	130			

Sample ID: mb-70439	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 70439			RunNo: 91349						
Prep Date: 9/27/2022	Analysis Date: 9/28/2022			SeqNo: 3271549		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	70	130			

Sample ID: Ics-70438	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 70438			RunNo: 91394						
Prep Date: 9/27/2022	Analysis Date: 9/28/2022			SeqNo: 3272469		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.9	80	120			
Toluene	0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Sample ID: mb-70438	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 70438			RunNo: 91394						
Prep Date: 9/27/2022	Analysis Date: 9/28/2022			SeqNo: 3272470		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Qualifiers:

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

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

WO#: 2209E05

13-Oct-22

Client: EOG
Project: Roy SWD 3

Sample ID: lcs-70460	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 70460			RunNo: 91419						
Prep Date: 9/28/2022	Analysis Date: 9/29/2022			SeqNo: 3272939		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.4	80	120			
Toluene	0.98	0.050	1.000	0	98.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	70	130			

Sample ID: mb-70460	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 70460			RunNo: 91419						
Prep Date: 9/28/2022	Analysis Date: 9/29/2022			SeqNo: 3272940		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2209E05

RcptNo: 1

Received By: Joseph Alderette 9/27/2022 7:25:00 AM

Completed By: Sean Livingston 9/27/2022 8:19:41 AM

Reviewed By: KPG 9-27-22

St
San Lopez

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *jr 9/27/22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

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

ATTACHMENT 5 – NMOCD CORRESPONDENCE

Released to Imaging: 6/2/2023 11:14:34 AM

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
Sent: Thursday, August 18, 2022 10:31 AM
To: Alan & Cheryl <ahowell@pvtm.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Joelynn Harimon <Joelynn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Morning,

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

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

Sampling will begin at 9:15 a.m. on Monday, August 22, 2022 and continue through Friday, August 26, 2022.

Thank you,

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



Artesia Division

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, September 21, 2022 10:12 AM
To: Alan & Cheryl <ahowell@pvt.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; Terrence Gant <Terry_Gant@eogresources.com>
Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Morning,

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

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

Sampling will begin at 10:00 a.m. on Friday, September 23, 2022.

Thank you,

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



Artesia Division

ATTACHMENT 6 – HISTORIC FIELD SCREENING RESULTS TABLES

Table 3:
Summary of Sample Results

EOG Resources
Roy SWD #003 (2RP-4576)

Sample ID	Sample Date	Depth (feet bgs)	BTEX mg/Kg	Benzen e mg/Kg	GRO mg/Kg	DRO mg/Kg	GRO + DRO mg/Kg	MRO mg/Kg	Total TPH mg/Kg	Field Screens mS/cm	Cl- mg/Kg
NMOCD Closure Criteria			50	10			1000		100		600
L1R	4/10/2019	30	--	--	--	--	--	--	--	0.13	--
	4/10/2019	35	<0.225	<0.025	<5.0	<9.9	<14.9	<50	<64.9	1.02	3100
	4/10/2019	40	<0.225	<0.025	<4.8	<9.9	<14.7	<49	<63.7	0.75	530
	4/10/2019	45	--	--	--	--	--	--	--	0.09	
	4/10/2019	50	--	--	--	--	--	--	--	0.12	--
	4/10/2019	55	--	--	--	--	--	--	--	0.12	--
	4/10/2019	60	<0.210	<0.023	<4.7	<9.1	<13.8	<45	<58.8	0.59	410
	4/10/2019	65	--	--	--	--	--	--	--	0.11	
	4/10/2019	70	--	--	--	--	--	--	--	0.17	--
L2R	4/11/2019	0	<0.0217	<0.024	<4.8	<9.0	<13.8	<45	<58.8	1.00	1700
	4/11/2019	5	--	--	--	--	--	--	--	0.58	--
	4/11/2019	10	--	--	--	--	--	--	--	0.8	--
	4/11/2019	15	--	--	--	--	--	--	--	0.94	--
	4/11/2019	20	<0.211	<0.023	<4.7	<9.0	<13.7	<45	<58.7	1.39	1700
	4/11/2019	25	<0.217	<0.024	<4.8	<8.8	<13.6	<44	<57.6	2.03	10000
	4/11/2019	30	--	--	--	--	--	--	--	0.83	--
	4/11/2019	35	--	--	--	--	--	--	--	0.33	--
	4/11/2019	40	--	--	--	--	--	--	--	0.07	--
	4/11/2019	45	--	--	--	--	--	--	--	0.06	--
	4/11/2019	50	--	--	--	--	--	--	--	0.07	--
	4/11/2019	55	--	--	--	--	--	--	--	0.06	--
	4/11/2019	60	--	--	--	--	--	--	--	0.06	--
	4/11/2019	65	--	--	--	--	--	--	--	0.06	--
	4/11/2019	70	--	--	--	--	--	--	--	0.06	--
	4/11/2019	75	--	--	--	--	--	--	--	0.06	--
L3R	4/11/2019	30	<0.212	<0.024	<4.7	<8.7	<13.4	<44	<57.4	0.25	220
	4/11/2019	35	<0.208	<0.023	<4.6	<8.9	<13.5	<45	<58.5	0.20	140
	4/11/2019	40	<0.212	<0.024	<4.7	<9.8	<14.5	<49	<63.5	0.13	110
	4/11/2019	45	--	--	--	--	--	--	--	0.12	--
	4/11/2019	50	--	--	--	--	--	--	--	0.07	--
	4/11/2019	55	--	--	--	--	--	--	--	0.07	--
	4/11/2019	60	--	--	--	--	--	--	--	0.08	--
	4/11/2019	65	--	--	--	--	--	--	--	0.06	--
	4/11/2019	70	--	--	--	--	--	--	--	0.05	--
	4/11/2019	75	--	--	--	--	--	--	--	0.07	--

--" = Not Analyzed

SMA #

Table 4
Summary of 2018 Field Screens

EOG Resources
Roy SWD #003 (2RP-4576)

Sample ID	Sample Date	Depth (feet bgs)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Petroflag Field Screens	Chloride
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	DRO mg/kg	mg/Kg
NMOCD Closure Criteria			50	10	1000			100	600	
L1	1/23/2018	1	<0.23	<0.023	<4.7	200	340	540	--	13000
	1/23/2018	2	--	--	--	--	--	--	--	4800
	1/23/2018	3	2.46	<0.025	140	14000	6100	20240	--	1900
	1/23/2018	4	--	--	--	--	--	--	--	1000
L2	1/23/2018	1	--	--	--	--	--	--	--	21000
	1/23/2018	3	--	--	--	--	--	--	--	1000
	1/23/2018	4	--	--	--	--	--	--	--	--
	1/23/2018	5	8.3	<0.024	250	6000	2700	8950	--	720
	10/29/2018	10	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	--	528
	10/29/2018	12	--	--	--	--	--	--	--	340
	10/29/2018	14	--	--	--	--	--	--	--	1100
10/29/2018	17	<0.300	<0.050	<10.0	11	<10.0	11	--	1410	
North SW	10/29/2018	sidewall	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	--	48
South SW L1	10/29/2018	sidewall	<0.300	<0.050	<10.0	183	47.8	230.8	--	1300
	12/11/2018	30	--	--	--	--	--	--	--	Cobble
L3	12/10/2018	5	--	--	--	--	--	--	--	--
	12/10/2018	7.5	--	--	--	--	--	--	--	--
	12/10/2018	10	--	--	--	--	--	--	178	--
	12/10/2018	15	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	--	1420
	12/10/2018	20	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	--	1600
	12/10/2018	25	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	--	2440
	12/10/2018	27	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	--	1800
12/10/2018	30	--	--	--	--	--	--	--	Cobble	
North SW	12/11/2018	sidewall	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0		48
South SW	10/29/2018	sidewall	--	--	--	230	--	--		--
West SW	12/10/2018	sidewall	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0		16
East SW	12/10/2018	sidewall	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0		48
East SW -1	12/10/2018	sidewall				73				
BG1	12/10/2018	5	--	--	--	--	--	--	--	--
	12/10/2018	10	--	--	--	--	--	--	--	32
	12/10/2018	15	--	--	--	--	--	--	--	--
	12/10/2018	20	--	--	--	--	--	--		48
	12/10/2018	25	--	--	--	--	--	--		48
BG2	12/11/2018	10	--	--	--	--	--	--		32
	12/11/2018	15	--	--	--	--	--	--		--
	12/11/2018	20	--	--	--	--	--	--		48
	12/11/2018	25	--	--	--	--	--	--		48

"--" = Not Analyzed

* = per Reclamation Standard (19.15.29.13.D(1) NMAC)

Excavated

ATTACHMENT 7 – SOIL BORING LOGS (SB's 1-3)



Ranger Environmental Services, Inc.
P.O. Box 201179,
Austin, Texas 78720
Phone: (512)335-1785
Fax: (512)335-0527

BORING NUMBER SB-1
PAGE 1 OF 2

CLIENT EOG Resources, Inc.

PROJECT NAME Roy SWD #3

PROJECT NUMBER 5375

PROJECT LOCATION Eddy County, New Mexico

DATE STARTED 5/18/22

COMPLETED 5/18/22

GROUND WATER LEVELS:

DRILLING CONTRACTOR HCI

AT TIME OF DRILLING ---

DRILLING METHOD Air Rotary

AFTER DRILLING ---

LOGGED BY Robert Martin

CHECKED BY Patrick Finn

BTOC = Below Top Of Casing

GB = Grab Sample

GEO = Geotech Sample

GPS COORDINATES 32.670981°, -104.517583°

DEPTH (ft)	SOIL SAMPLE ANALYSIS	GROUNDWATER LEVELS (BTOC)	PID/FIELD CHLORIDE TITRATION (In ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Casing Type: 6.25" Diameter Temp. Well
			2 / 750		(GM) Silty Gravel, brown to tan, 0.5"-1.5" diameter gravel inclusions, subrounded to subangular, medium dense	
			0.8 / 750			
			2.6 / 600			
			2.8 / 1275		(SC) Clayey Silt, brown, very fine grained, medium sorted, poorly graded, medium dense	
5			1 / 600			
			0.4 / 600			
			0.5 / 900			
			0.8 / 600			
			2.5 / 750			
10			0.6 / 750			
			1.2 / 750			
			1 / 750			
			3 / 750			
			2.1 / 750			
15			1.4 / 750			
			1.6 / 750			
			1.2 / 900			
			1.7 / 900			
			1.5 / 900			
20			1.6 / 750			
			1 / 900			
			2 / 750			
	GB		0 / 1050			
			1.2 / 750			
25			1.8 / 750			
			2.2 / 750		(GM) Silty Gravel, white, tan, brown, poorly sorted, very well graded, 0.5"-2.5" diameter gravel inclusions, subrounded	
			3.8 / 750			
			4.5 / 750			
			9.9 / 600			
30			6.4 / 450			
			0.7 / 600			
			0.1 / 600			
			0 / 450			
			0 / 750			
35						

← Bentonite

(Continued Next Page)



Ranger Environmental Services, Inc.
P.O. Box 201179,
Austin, Texas 78720
Phone: (512)335-1785
Fax: (512)335-0527

BORING NUMBER SB-1
PAGE 2 OF 2

CLIENT EOG Resources, Inc.

PROJECT NAME Roy SWD #3

PROJECT NUMBER 5375

PROJECT LOCATION Eddy County, New Mexico

DEPTH (ft)	SOIL SAMPLE ANALYSIS	GROUNDWATER LEVELS (BTOC)	PID/FIELD CHLORIDE TITRATION (In ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
35						
			0 / 750		(SM) Clayey Sandy Silt, reddish-brown to maroon, very well sorted, poorly graded, loose to medium dense, 0.5" diameter gravel inclusions, subrounded	
			0 / 600			
			0 / 600			
	GB		0 / 450			
	GB		0 / 450			
40	GB		0 / 300	40.0		

Bottom of borehole at 40.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 8/19/22 08:38 - R:\DRAFTING FILES\GINT LOGS\5375 - ROY SWD #3 - BORING LOGS.GPJ



Ranger Environmental Services, Inc.
P.O. Box 201179,
Austin, Texas 78720
Phone: (512)335-1785
Fax: (512)335-0527

BORING NUMBER SB-2
PAGE 1 OF 2

CLIENT EOG Resources, Inc.

PROJECT NAME Roy SWD #3

PROJECT NUMBER 5375

PROJECT LOCATION Eddy County, New Mexico

DATE STARTED 5/18/22

COMPLETED 5/18/22

GROUND WATER LEVELS:

DRILLING CONTRACTOR HCI

AT TIME OF DRILLING ---

DRILLING METHOD Air Rotary

AFTER DRILLING ---

LOGGED BY Robert Martin

CHECKED BY Patrick Finn

BTOC = Below Top Of Casing

GB = Grab Sample

GEO = Geotech Sample

GPS COORDINATES 32.670985°, -104.517664°

DEPTH (ft)	SOIL SAMPLE ANALYSIS	GROUNDWATER LEVELS (BTOC)	PID/FIELD CHLORIDE TITRATION (In ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Casing Type: 6.25" Diameter Temp. Well
5			2.8 / 3000+ 3.2 / 1500 1.1 / 2850 1.6 / 2250 2.7 / 2250 3.2 / 3000+ 2.8 / 3000+ 2.7 / 2100 5.4 / 2250 1.6 / 1650 1.1 / 1350 1.4 / 1800 1.5 / 1500 0.3 / 2400 0.8 / 2550 1.1 / 2400 0.7 / 3000+ 1.9 / 2700 0.6 / 3000+ 0.1 / 3000+ 0.9 / 3000+ 0.7 / 3000+ 1.4 / 3000+ 0.5 / 3000+ 0.7 / 3000+ 0.7 / 3000+ 0.4 / 3000+ 0 / 3000+ 1.2 / 3000+	2.0 15.0 29.0	(GM) Silty Gravel, brown, <0.25" diameter gravel, subangular, very fine silt (GM) Gravelly Clayey Silt, brown, poorly sorted, medium graded, 0.25" diameter gravel, subrounded to subangular (GP) Sandy Gravel, buff to tan, very fine grained sand, 0.25" diameter gravel, subangular to subrounded (SP) Gravelly Sand, buff to tan, very fine grained, poorly sorted, medium graded, subrounded to subangular	
30	GB		0 / 2250 1.8 2.9 4.7 5			
35						

(Continued Next Page)



Ranger Environmental Services, Inc.
P.O. Box 201179,
Austin, Texas 78720
Phone: (512)335-1785
Fax: (512)335-0527

BORING NUMBER SB-2
PAGE 2 OF 2

CLIENT EOG Resources, Inc.

PROJECT NAME Roy SWD #3

PROJECT NUMBER 5375

PROJECT LOCATION Eddy County, New Mexico

DEPTH (ft)	SOIL SAMPLE ANALYSIS	GROUNDWATER LEVELS (BTOC)	PID/FIELD CHLORIDE TITRATION (In ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
35			2.5			
			0.8			
			0.2			
			2			
			0.4			
40			0 / 1950			
			0 / 2550			
			0 / 1650			
			0 / 600			
			0 / 300			
45			0 / 750			
			0 / 750			
	GB		0 / 600			
	GB		0 / 300			
	GB		0 / 300			
50	GB		0 / 450			

36.0

(SM) Clayey Sandy Silt, reddish-brown to maroon, very well sorted, poorly graded, loose to medium dense, 0.25" diameter gravel, subrounded

50.0

Bottom of borehole at 50.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 8/19/22 08:38 - R:\DRAFTING FILES\GINT LOGS\5375 - ROY SWD #3 - BORING LOGS.GPJ



Ranger Environmental Services, Inc.
P.O. Box 201179,
Austin, Texas 78720
Phone: (512)335-1785
Fax: (512)335-0527

BORING NUMBER SB-3
PAGE 1 OF 1

CLIENT EOG Resources, Inc.

PROJECT NAME Roy SWD #3

PROJECT NUMBER 5375

PROJECT LOCATION Eddy County, New Mexico

DATE STARTED 5/18/22

COMPLETED 5/18/22

GROUND WATER LEVELS:

DRILLING CONTRACTOR HCI

AT TIME OF DRILLING ---

DRILLING METHOD Air Rotary

AFTER DRILLING ---

LOGGED BY Robert Martin

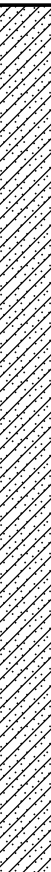


CHECKED BY Patrick Finn

BTOC = Below Top Of Casing

GPS COORDINATES 32.670989°, -104.517783°

GB = Grab Sample

GEO = Geotech Sample

GEO - Geotech Sample						
DEPTH (ft)	SOIL SAMPLE ANALYSIS	GROUNDWATER LEVELS (BTOC)	PID/FIELD CHLORIDE TITRATION (In ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Casing Type: 6.25" Diameter Temp. Well
5	GB		2.3 / 300 1.9 / 300 1.2 / 150 1.5 / 300 0.6 / 300 0.6 / 300 0.7 / 300 0.2 / 300 0.5 / 300 0.7 / 300 0.4 / 300 0.3 / 300 0.5 / 300 0.3 / 150 0 / 300 0.3 / 300 0 / 300 0.3 / 150 0.4 / 300 0.1 / 150 0 / 150 0 / 150 0 / 150 0 / 300 0.2 / 150 0 / 150 0 / 150 0 / 150 0 / 150 0 / 150		(SC) Clayey Silt, brown, very well sorted, poorly graded, 0.25" diameter gravel, subrounded	
10						
15	GB					← Bentonite
20						
25						
30	GB					
	GB		0 / 150		(GP) Sandy Gravel, buff to tan, 0.25" diameter gravel, subrounded to subangular	
Bottom of borehole at 30.0 feet.						

Incident ID	nAB1834454137
District RP	2RP-5094
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 & Environmental Sr

Signature: Chase Settle Date: 02/03/2023

email: Chase_Settle@eogresources.com

Telephone: 575-748-1471

OCD OnlyReceived by: Jocelyn Harimon Date: 02/03/2023☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Robert Hamlet Date: 6/2/2023

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 182393

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 182393
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. The variance for the geosynthetic clay liner at 6 feet below ground surface is approved under the circumstance that as much contaminated soil is safely removed as possible. The excavations should be backfilled to 6 feet below surface with clean material, liner installed, and then backfilled to surface with clean material. Since the release is within 300 feet of a significant watercourse, the release will need to meet the strictest closure criteria standards. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. The variance is approved for 400 ft2 floor samples. Collect confirmation sidewall samples, representing no more than 200 ft2. A closure report will need to be completed and uploaded within 90 days.	6/2/2023