Page 1 of 168

Incident ID nAPP2111046250

District RP
Facility ID
Application ID

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included:	ded in the plan.	
<ul> <li>☑ Detailed description of proposed remediation technique</li> <li>☑ Scaled sitemap with GPS coordinates showing delineation points</li> <li>☑ Estimated volume of material to be remediated</li> <li>☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>		
Deferral Requests Only: Each of the following items must be confirmed	d as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around producti deconstruction.	on equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health, the e	nvironment, 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.		
	le: Rep Safety and Environmental Sr	
Signature: The Sittle Date	e: 10/14/2021	
email: Chase_Settle@eogresources.com Tell	ephone: 575-748-1471	
OCD Only		
Received by: Robert Hamlet Date	:: <u>4/21/2022</u>	
☐ Approved	val Denied Deferral Approved	
Signature: Robert Hamlet Date:	4/21/2022	



## SITE CHARACTERIZATION AND PROPOSED REMEDIATON PLAN

## EASTERN OFF-PAD AND SOUTHERN ON-PAD AREAS

ROY SWD #3 (NAPP2111046250) UNIT P, SECTION 7, TOWNSHIP 25S, RANGE 25E EDDY COUNTY, NEW MEXICO 32.67059, -104.51773

## PREPARED FOR:

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

## PREPARED BY:

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

**OCTOBER 12, 2021** 

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

William Kierdorf, REM Project Manager

#### **TABLE OF CONTENTS**

SITE LOCATION AND BACKGROUND	. 1
SITE CHARACTERIZATION	. 2
Depth-to-Groundwater	. 2
Wellhead Protection Area	. 2
Distance to Nearest Significant Watercourse	. 2
Closure Criteria	. 3
SITE ASSESSMENT	. 3
June 8, 2021 EM Survey	. 4
August 4, 2021 – Additional Site Assessment	. 4
PROPOSED ASSESSMENT AND REMEDIATION PLAN	. 5
Proposed Soil Delineation Activities	. 5
·	
·	
	SITE CHARACTERIZATION  Depth-to-Groundwater  Wellhead Protection Area.  Distance to Nearest Significant Watercourse  Closure Criteria.  SITE ASSESSMENT  May 5 & 6, 2021 – Initial Site Assessment and Sampling Results  June 8, 2021 EM Survey  August 4, 2021 – Additional Site Assessment  PROPOSED ASSESSMENT AND REMEDIATION PLAN  Proposed Soil Delineation Activities

#### **FORM C-141**

#### **FIGURES**

- Topographic Map
- Area Map
- Site Map
- National Wetland Inventory Map
- FEMA Floodplain Map
- Karst Topography Map
- Proposed Remediation Area
- Proposed Cleanup Confirmation Sample Location Map
- Proposed Vertical Soil Delineation Locations

## **TABLES**

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

### **ATTACHMENTS**

- Attachment 1 USGS and NMOSE Water Well Data
- Attachment 2 NM Energy, Minerals and Natural Resources Department Active Mines Map
- Attachment 3 Photographic Documentation
- Attachment 4 Laboratory Analytical Reports
- Attachment 5 James H & Betty R Howell Revocable Trust Seed Mix



SITE CHARACTERIZATION AND PROPOSED REMEDIATION PLAN EASTERN OFF-PAD AND SOUTHERN ON-PAD AREAS **ROY SWD #3 (NAPP2111046250) UNIT N, SECTION 16, TOWNSHIP 20S, RANGE 24E EDDY COUNTY, NEW MEXICO** 32.67059. -104.51773 **RANGER REFERENCE NO. 5375** 

#### 1.0 SITE LOCATION AND BACKGROUND

The Roy SWD #3 (site) is located on private land, approximately 13.6 miles southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit N, Section 16, T20S-R24E at GPS coordinates 32.67059, -104.51773. The site, operated by EOG Resources, Inc. (EOG), consists of a salt water disposal well, a tank battery with an earthen containment berm, pump houses and associated equipment. Additionally, an earthen berm surrounds the extent of the facility pad footprint. Historically, operations at the site were conducted within the full extent of the facility pad, however a reduction of operations at the site left the southern approximate half of the facility pad unused. Prior to the reporting of the incident detailed below, reclamation efforts to decommission the southern portion of the pad were completed.

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

During the performance of a June 2021 EM survey at the subject site, areas of elevated conductivity were documented in the decommissioned southern on-pad area adjoining the eastern off-pad affected area. Subsequent test pit assessment activities were conducted in this area in August 2021 that revealed the presence of a subsurface plastic liner that appears to overlie a closed drill cuttings pit associated with the injection well. The boundaries of the apparent former pit were not fully delineated by the August 2021 assessment activities.

EOG has engaged Ranger Environmental Services, Inc. (Ranger) to assist in the assessment and remediation efforts at the Site. Ranger personnel have completed various site assessment activities to assess and document conditions at the Site. The following proposed site characterization and remediation work plan has been prepared to address the further delineation and remediation of the eastern off-pad and southern on-pad areas.

It should be noted that on August 16, 2021, an active release was discovered at the site in the northern active portion of the well pad. A line leading from the pump to the disposal well immediately north of the well head was observed to be leaking produced water. Due to the nature and volume of the release, the incident (nAPP2123047534) was reported to the NMOCD within the required time frame. The impacts in the northern on-pad area are being addressed separately from the southern on-pad and eastern off-pad areas addressed in this work plan.

STATE OF TEXAS PROFESSIONAL GEOSCIENTIST FIRM NO. 50140 • STATE OF TEXAS PROFESSIONAL ENGINEERING FIRM NO. F-6160

A copy of the Form C-141 Release Notification, 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 a Site Map illustrating the Site features and sampling locations, are provided in the Figures section.

#### 2.0 SITE CHARACTERIZATION

## 2.1 <u>Depth-to-Groundwater</u>

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 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 mi. to 2 mi. from the subject site, depth to water was reported as ranging from approximately 72' below ground surface (bgs) to 265' bgs. The depth to water for the wells located closest to the subject site ranged between 72' – 97' bgs.

Since a significant watercourse is located within 300 feet of the subject site, the site release will have to be treated as if it occurred less than 50 feet to ground water in Table I of 19.15.29.12 NMAC. 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 between 50'-100' bgs.

## 2.2 <u>Wellhead Protection Area</u>

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 <u>Distance to Nearest Significant Watercourse</u>

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 it occurred less than 50 feet to ground water in Table I 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 Table 1 19.15.29.12 NMAC (groundwater ≤50 feet) criteria. The proposed closure criteria are detailed below:

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

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

## 3.0 SITE ASSESSMENT

## 3.1 May 5 & 6, 2021 – Initial Site Assessment and Sampling Results

During May 5-6, 2021, Ranger personnel and representatives for EOG conducted soil assessment activities at the site to address the area of concern in the eastern off-pad area that had been reported to EOG by Howell Ranch. To assess the conditions in the reported area of concern, a total of 18 test hole excavations were completed at various locations across the site, and soil samples were collected for laboratory analysis from 16 of the test hole locations.

During the test hole excavation process, Ranger personnel field screened the generated soils using an organic vapor monitor (OVM) and a field chloride titration kit to assist in evaluating the soil conditions and/or levels of impacts in the area. The field screening results were utilized to ensure collection of samples in the areas with the greatest apparent impacts. During the assessment of the eastern off-pad area, elevated field readings were obtained in the area immediately adjoining the southern reclaimed portion of the facility pad. As such, four of the test hole excavations were also completed in the southern reclaimed portion of the facility pad.

During the test hole installation process, soil samples were collected for laboratory analysis from the test hole locations. Upon collection, the soil samples were submitted to Hall Environmental Laboratory Inc. (Hall Laboratory) in Albuquerque, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and total chloride using EPA Method 300. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

Upon review of the laboratory analytical results, exceedances of the Table 1 19.15.29.12 NMAC (groundwater ≤50 feet) criteria for chloride were documented in 13 out of the 16 test hole locations. There were no exceedances of the Table 1 19.15.29.12 NMAC (groundwater ≤50 feet) criteria for BTEX or TPH. Chloride impacts exceeding the site closure criteria in the eastern off-pad area were documented to a vertical depth of 10' bgs; however, the vertical extent of the



impacts in this area were not fully delineated. The horizontal extent of the chloride impacts exceeding the site closure criteria were not fully delineated in the eastern off-pad area either. In the eastern portion of the southern on-pad area, in the area believed to be just east of the apparent former pit area, chloride impacts exceeding the site closure criteria were documented to a vertical depth of 20' bgs; however, the vertical extent of the impacts in this area were not fully delineated either.

A *Site Map* illustrating the locations of the May 2021 test holes is attached. These sample locations are all designated with an "SP" in the sample name (e.g. – SP-S, SP-W, etc.). The soil sample analytical results are summarized in the attached soil analytical table. Copies of the laboratory analytical reports are also attached.

## 3.2 June 8, 2021 EM Survey

To assist in delineating the documented chloride impacts at the site, Ranger conducted an electromagnetic (EM) survey at the site on June 8, 2021. Ranger utilized a Geonics EM-31DL Ground Conductivity Meter (GCM) to conduct the EM survey. The EM survey area encompassed the affected eastern off-pad area and the reclaimed southern portion of the facility pad. The EM survey also encompassed a portion of the active northern on-pad area; however, as discussed above, this area of the site is being addressed separately from the affected eastern off-pad area and the reclaimed southern portion of the facility pad.

The Geonics EM-31DL GCM measures terrain conductivity and has an effective depth-ofexploration of approximately six meters (19.685) feet below ground surface (bgs). During the site EM survey, Global Positioning Systems (GPS) equipment was utilized to position the geophysical data collected for the project. After the data was acquired, geotechnical software was utilized to process the EM information utilizing a proprietary software package and the information was contoured using Golden Software's Surfer contouring and mapping program.

The attached EM Survey Map illustrates the results of the EM survey. In the eastern off pad area, the areas surrounding test hole locations SP-W and SP-SW were found to contain the highest conductivity readings. Multiple areas of elevated conductivity were also found in the southern on pad area including in the area overlying the apparent closed pit and in surrounding areas.

Based on the observed EM survey data and the May 5-6, 2021 soil analytical results, additional assessment activities were conducted at the site in August 2021.

### 3.3 August 4, 2021 – Additional Site Assessment

On August 4, 2021, Ranger personnel and representatives for EOG returned to the Site to complete additional soil assessment activities. Based on the May 2021 soil analytical results and the June 2021 EM survey data, a total of 7 additional excavation test holes (TH-6 to TH-12) were completed in various locations across the southern facility pad. The test holes were strategically placed in both the areas documented to have the most elevated EM readings and in areas documented to contain the lowest EM readings. At the time of assessment, additional test excavations within the eastern off-pad area were also going to be conducted; however, due to significant rain events, access to the pasture area was limited and the planned additional assessment activities in this area were unable to be completed.



During the test hole 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. During the installation of test holes TH-6 through TH-11, evidence of an apparent closed pit was encountered. Upon reaching depths of approximately 0.5' - 1.5' bgs a plastic liner was encountered, and potential pit material was observed beneath the liner. Upon encountering the liner, excavation activities were halted to preserve the integrity of the liner. To assess the material overlying the apparent historic pit, soil samples were collected from each location at the surface and immediately above the encountered plastic liner material. Regarding test hole TH-12, no plastic liner material was encountered at this location and the test hole was extended to a depth of 10' bgs.

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. Chloride concentrations in excess of the site closure criteria were documented in test holes TH-6, TH-7, TH-10 and TH-11. The TH-6/1' soil sample also was documented to contain an exceedance of the site TPH closure criteria.

As illustrated on the EM Survey Map, test hole TH-12 had been placed in an area of elevated conductivity. It was advanced to a terminal depth of 10' bgs, with no field indications of potential impacts. The soil samples collected for laboratory analysis from this test hole were found to contain nondetectable BTEX, TPH and chloride concentrations to a depth of 10' bgs. The absence of any field or laboratory impacts from 0'-10' bgs, and the presence of this location within an area of elevated conductivity based upon the EM survey results, indicates possible soil impacts at this location between 10' bgs and 20' bgs.

A *Site Map* illustrating the locations of the August 2021 test holes is attached. The soil sample analytical results are summarized in the attached soil analytical table. Copies of the laboratory analytical reports are also attached.

#### 4.0 PROPOSED ASSESSMENT AND REMEDIATION PLAN

Attached is a *Proposed Remediation Area* map which illustrates the eastern off-pad and southern on-pad areas to be remediated as part of this work plan. As discussed above, impacts in the northern on-pad area will be addressed separately from the southern on-pad and eastern off-pad areas in conjunction with the August 16, 2021 release incident (nAPP2123047534). Below is a detailed discussion of the methodologies proposed to complete the soil delineation and remediation activities in the eastern off-pad and southern on-pad areas.

## 4.1 <u>Proposed Soil Delineation Activities</u>

Ranger proposes to initially install additional test holes in the southern on-pad area to better delineate the boundaries of the apparent closed pit in this area. The number of additional test holes for this purpose will be determined in the field. The test holes located over the apparent closed pit will only be extended until the plastic liner overlying the apparent pit materials is encountered. No sampling will be conducted as part of this activity. Rather, visual observations of the plastic liner overlying the apparent closed pit will be made.



As discussed in greater detail in Section 4.2, below, once the boundaries of the apparent closed pit have been adequately delineated, the first step in the site remediation process will be to excavate the soils exceeding the site closure criteria that are located outside of the apparent closed pit area and within the 0' - 6' bgs depth interval (except for those soils in close proximity to the pit whose removal may endanger the integrity of the pit). The horizontal delineation of the impacted 0' - 6' bgs soils in the remediation area will be completed through the performance of cleanup confirmation soil sampling activities to be conducted in conjunction with the soil removal operations. It is also possible that installation and sampling of additional delineation test holes may be conducted to assist in the delineation process.

The excavated areas will be tested for contamination with representative five-point composite samples from the walls and base, and individual grab samples from any wet or discolored areas. Due to the size of the proposed remediation area, the fact that significant assessment has already been completed in the area, and the proposed usage of an OVM and field chloride titration kits as field screening tools while conducting the soil remediation operations, it is proposed that the sample area for each composite cleanup confirmation soil sample will not exceed more than 400 square feet. As illustrated on the attached "Proposed Cleanup Confirmation Sample Location Map," this will result in the collection of approximately 38 composite cleanup confirmation soil samples from the floor of the eastern off-pad excavation area, and 15 composite cleanup confirmation soil samples from the excavation sidewalls of the entire remediation area (including both the eastern off-pad area and the southern on-pad areas). In the southern on-pad area, composite cleanup confirmation soil samples will be collected from the excavation floor similarly to that proposed for the eastern off-pad area (1 sample per 400 sq. ft) except that no excavation floor samples will be collected within the area of the apparent closed pit. As discussed in Section 4.2 below, the soils overlying the plastic liner of the apparent closed pit will simply be removed and a geosynthetic clay liner will be installed over this area.

Each composite cleanup confirmation soil sample will be comprised of five equal parts collected from the sample area. Upon collection, the composite parts will be placed into a new disposable mixing vessel, thoroughly mixed, and a sample for laboratory analysis will be collected from the mixture. The samples will be collected under standard QA/QC procedures, immediately placed into laboratory-supplied containers, and stored in a sample shuttle containing ice.

A minimum of two soil samples will be collected for laboratory analysis from any test holes that may be installed, including one sample at the interval with the highest indications of impact based upon the field screening activities (OVM and field chloride titration results), and one sample at the termination depth of the test hole. Additional samples may be collected as determined to be necessary.

The vertical delineation of the soil impacts within the proposed remediation area will be completed through both the performance of cleanup confirmation soil sampling activities to be conducted in conjunction with the soil removal operations, as described above, as well as through the installation of additional test holes (or soil borings if the vertical extent of impacts exceed the maximum depth achievable for a test hole). As part of the vertical delineation process, Ranger proposes to conduct vertical delineation activities in four select "worst-case" areas, including two on-pad areas and two off-pad areas. Attached is a *Proposed Vertical Soil Delineation Locations* map which illustrates the locations of the four proposed vertical delineation locations.

As discussed above, during the performance of the EM survey in the eastern off pad area, the areas surrounding test hole locations SP-W and SP-SW were found to contain the highest off-pad conductivity readings, indicating that these two locations likely have the greatest vertical



impacts within the eastern off-pad area. To determine the vertical extent of impacts in the eastern off-pad area, vertical delineation test holes (and/or soil borings) are therefore proposed to be installed in these two "worst-case" elevated EM areas.

Similar to the eastern off-pad area, two vertical delineation locations are proposed for the southern on-pad area. These locations are also proposed to be within areas of elevated conductivity based upon the completed EM survey. One vertical delineation location will be near the former TH-7 location, or by the SP-SW.1 location if the pit is found to extend eastward over the area of elevated conductivity documented to surround the TH-7 location. The second vertical delineation location will be at the former TH-12 location. The vertical delineation activities will be conducted outside of the boundaries of the apparent closed pit and will be completed through the installation and sampling of additional test holes (or soil borings if the vertical extent of impact exceeds the depth limitations associated with the test holes).

As discussed above, soil borings will only be installed to assist in the site delineation activities if the vertical extent of the soil impacts are found to extend beyond the maximum depth achievable for a test hole (approximately 20' bgs). Soil boring depths will not exceed 50' bgs without first obtaining well permits from the NMOSE in case groundwater might be encountered beyond this depth.

All delineation and/or cleanup confirmation soil samples will be analyzed for TPH using EPA Method 8015; BTEX using EPA Method 8021; and total chloride using EPA Method 300.

### 4.2 Proposed Soil Remediation Activities

All soils containing exceedances of the proposed site closure criteria that are located outside of the area of the apparent closed pit, and that are within the 0'-6' bgs depth interval, will be excavated and disposed at an authorized off-site disposal facility. The only exception to this will be that any soils located adjacent to the pit whose removal may endanger the integrity of the closed pit will not be removed. In the area located over the apparent closed pit, all soils containing exceedances of the proposed site closure criteria that are located above the plastic liner of the pit will also be excavated and disposed at an authorized off-site disposal facility.

As part of the site remediation process, the eastern pad berm which extends through the proposed remediation area will be removed. Additional portions of the berm surrounding the western, southern and eastern boundaries of the southern on-pad area may be removed if the soil impacts are found to extend beneath them. The removed berm materials will be used to create a new berm along the southern border of the active northern on-pad area. Any excess berm material will be sampled (one 5-part composite sample per 50 cy) and disposed if found to exceed the site closure criteria.

Soils exceeding the site closure criteria that are located outside of the apparent closed pit and below a depth of six (6) feet bgs will either be excavated and disposed at an authorized off-site disposal facility, or a geosynthetic clay liner will be installed over them to minimize the potential for any future vertical migration. A geosynthetic clay liner will also be installed on top of the plastic liner which overlies the apparent closed pit. As discussed above, no soil removal operations will be conducted near the pit area if these operations would endanger the integrity of the closed pit.

It should be noted that the boundaries of the proposed remediation area may be subject to change since the prior assessment activities did not fully delineate the horizontal extent of impacts. The proposed remediation area may potentially be expanded based upon the results of the proposed



field screening and cleanup confirmation/delineation 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.

The excavated areas located outside of the apparent closed pit will be backfilled to grade with clean fill material of similar type to that which was removed. The location will then be re-vegetated with the James H & Betty R Howell Revocable Trust Seed Mix. The area above the apparent closed pit will be backfilled with two feet of topsoil after the placement of the geosynthetic clay liner in this area. This area will also be re-vegetated with the James H & Betty R Howell Revocable Trust Seed Mix.

Upon approval of the proposed assessment and remediation plan, all field activities will be scheduled as soon as reasonably possible. It is anticipated that the proposed activities can be completed within 120 days of initiation. Appropriate notification to the NMOCD will be provided prior to the performance of the proposed activities.

### 5.0 REPORTING

Upon completion of the proposed activities, a C-141 Closure Report will be submitted to the NMOCD, and closure of this area 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** 

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	nAPP2111046250
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

Responsible Party EOG Resources, Inc.			OGRID 7377				
Contact Name Chase Settle			Contact Telephone 575-748-1471				
Contact email Chase_Settle@eogresources.com			(assigned by OCD) nAPP2111046250				
Contact mai	ling address	104 S. 4th Str	eet, Artesia, I	NM 88	8210		
			Location			ource	
Latitude 32	.67059				Longitude	-104.51773	
			(NAD 83 in de	ecimal de	grees to 5 decin	mal places)	
Site Name R	ov SWD i	#3			Site Type	Flow Line	
Date Release	Discovered	04/16/2021				plicable) 30-015-26562	
			1				
Unit Letter	Section	Township	Range		Coun	nty	
Р	7	19S	25E Eddy				
Surface Owne	Surface Owner: State Federal Tribal Private (Name: Howell Revocable Trust						
			Nature and	d Vol	lume of l	Release	
				n calculat	tions or specific	justification for the volumes provided below)	
Crude Oi		Volume Release	` /			Volume Recovered (bbls)	
✓ Produced	l Water	Volume Release	ed (bbls) Unkno	wn		Volume Recovered (bbls) 0	
Is the concentration of dissolved chloride produced water >10,000 mg/l?		e in the	☑ Yes ☐ No				
Condensate Volume Released (bbls)			Volume Recovered (bbls)				
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)					
Cause of Re	lease Unkno	own historical re	elease, no kno	wn vo	lume or da	ate.	

Received by OCD: 10/14/2021 1:12:17 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

73	-4 4			
Page	11	nt.	•	68
1 4226	17			1717
		-,		

Incident ID	nAPP2111046250
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respondence of fluid release		
19.15.29.7(A) NMAC?			
☑ Yes ☐ No			
If YES, was immediate no	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?	
	Initial R	esponse	
The responsible	party must undertake the following actions immediated	y unless they could create a safety hazard that would result in injury	
✓ The source of the rele	ease has been stopped.		
	is been secured to protect human health and	the environment.	
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.	
All free liquids and re	ecoverable materials have been removed an	d 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: Chase	Settle	Title: Rep Safety & Environmental Sr	
Signature: Phase	o Pettle	Date: 04/19/2021	
	@eogresources.com	Telephone: 575-748-1471	
eman		reiepholie.	
OCD Only			
Received by:		Date:	

	Page 15 of 10	58
Incident ID	nAPP2111046250	
District RP		
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?	50-100 (ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ☑ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	✓ Yes ☐ 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)?	☐ Yes ☑ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ 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?	☐ Yes ☑ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No		
Are the lateral extents of the release within 300 feet of a wetland?	✓ Yes ☐ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No		
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☑ 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.			
<ul> <li>✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wellow Field data</li> <li>✓ Data table of soil contaminant concentration data</li> <li>✓ Depth to water determination</li> <li>✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>✓ Boring or excavation logs</li> <li>✓ Photographs including date and GIS information</li> </ul>	ls.		
☐ Topographic/Aerial maps			

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.

☐ Laboratory data including chain of custody

Received by OCD: 10/14/2021 1:12:17 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Facility ID
Application ID

	Page 17 of 168
Incident ID	nAPP2111046250
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.		
<ul> <li>☑ Detailed description of proposed remediation technique</li> <li>☑ Scaled sitemap with GPS coordinates showing delineation points</li> <li>☑ Estimated volume of material to be remediated</li> <li>☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>		
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Chase Settle	Title: Rep Safety and Environmental Sr	
Signature: The Sittle	Date: 10/14/2021	
email: Chase_Settle@eogresources.com	Telephone: <u>575-748-1471</u>	
OCD Only		
Received by:	Date:	
Approved	Approval	
Signature:	Date:	

Received by OCD: 10/14/2021 1:12:17 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

	Page 18 of 168
Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

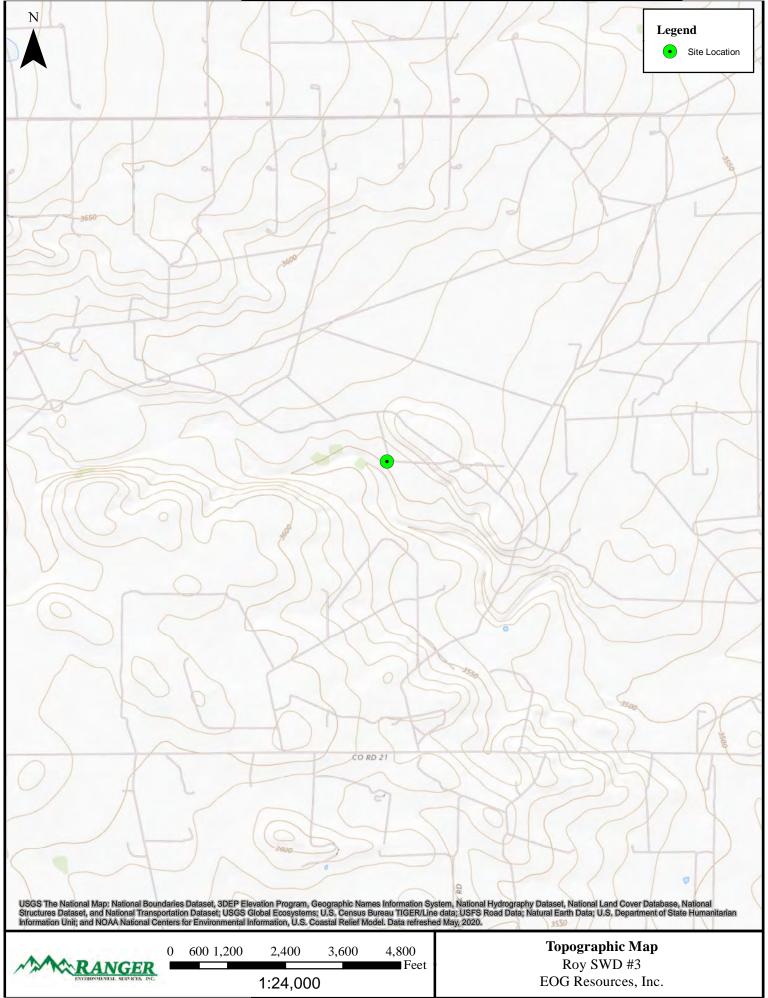
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

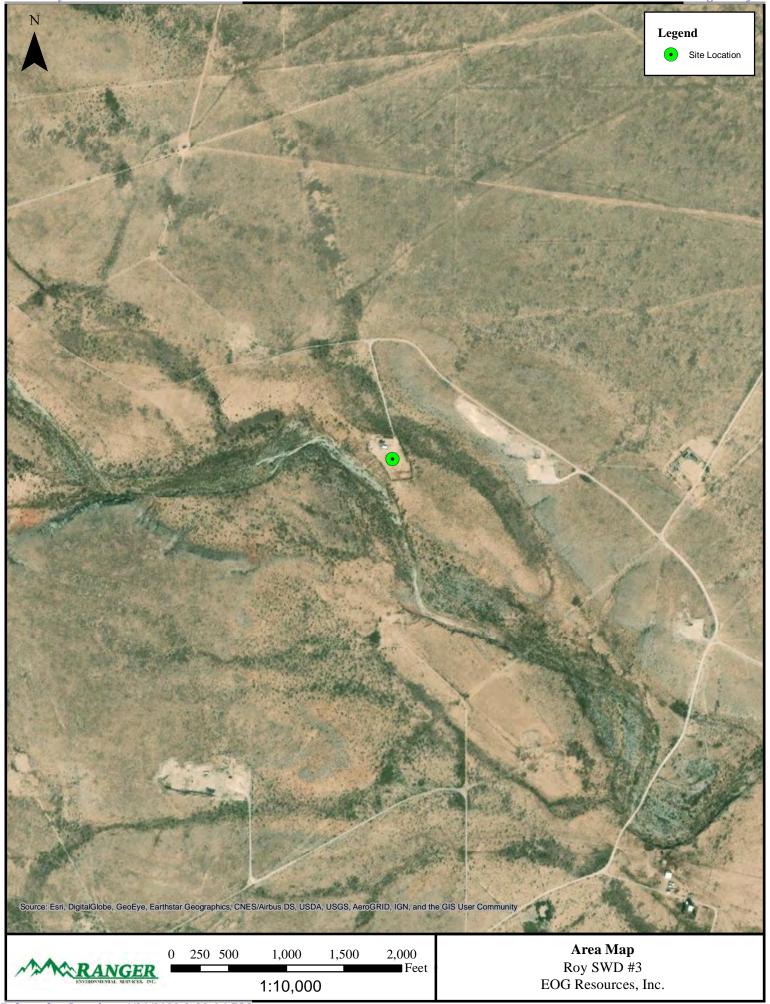
Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

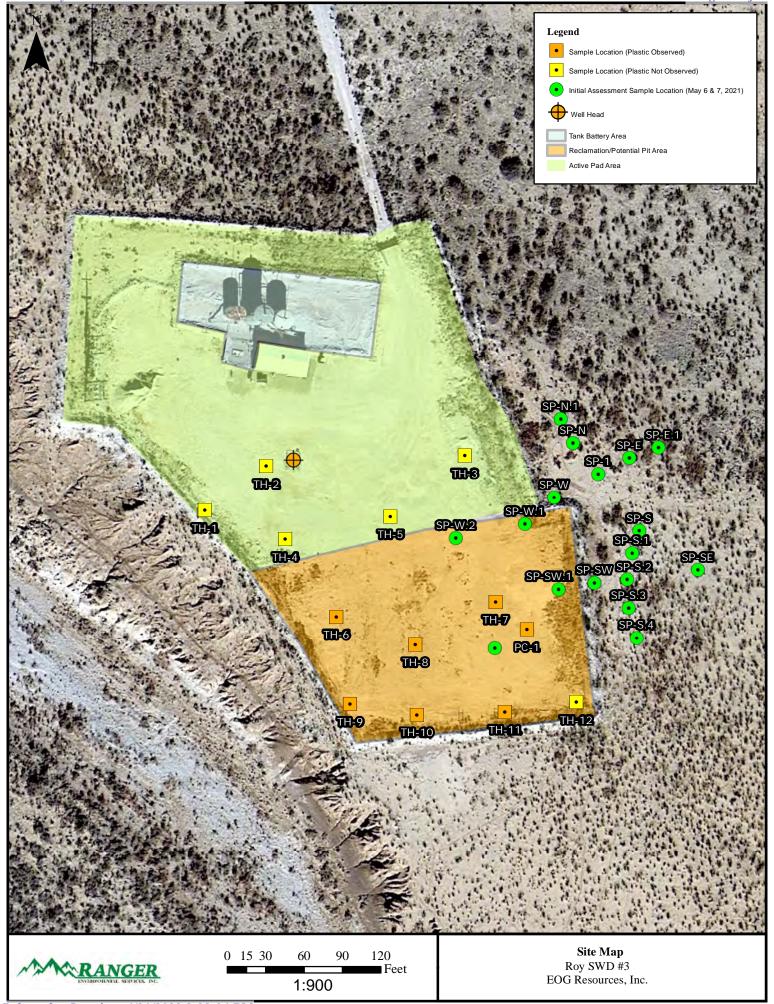
☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

## **FIGURES**

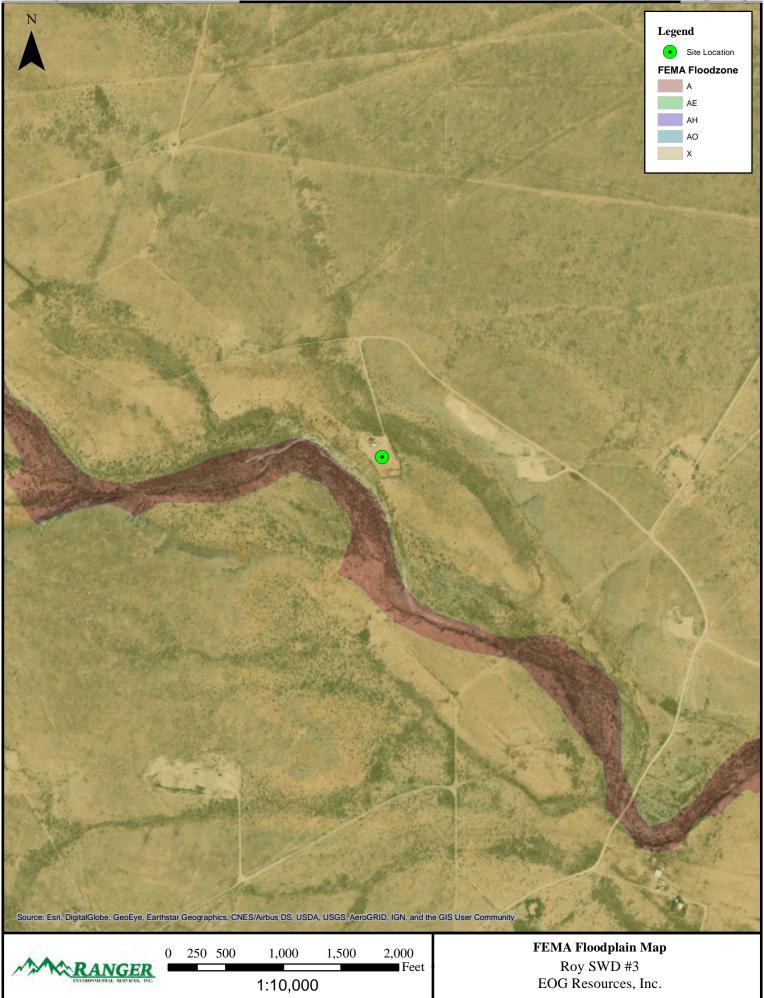
- Topographic Map
  - Area Map
  - Site Map
- National Wetland Inventory Map
  - •FEMA Floodplain Map
  - Karst Topography Map
  - Proposed Remediation Area
- Proposed Cleanup Confirmation Sample Location Map
  - Proposed Vertical Soil Delineation Locations

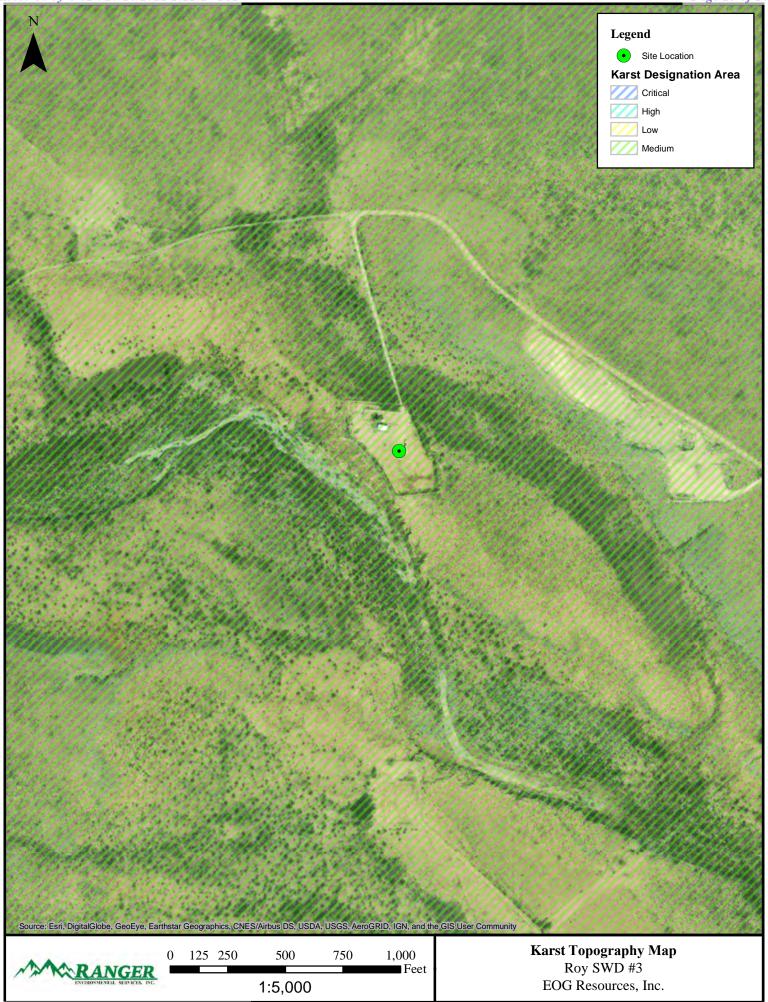


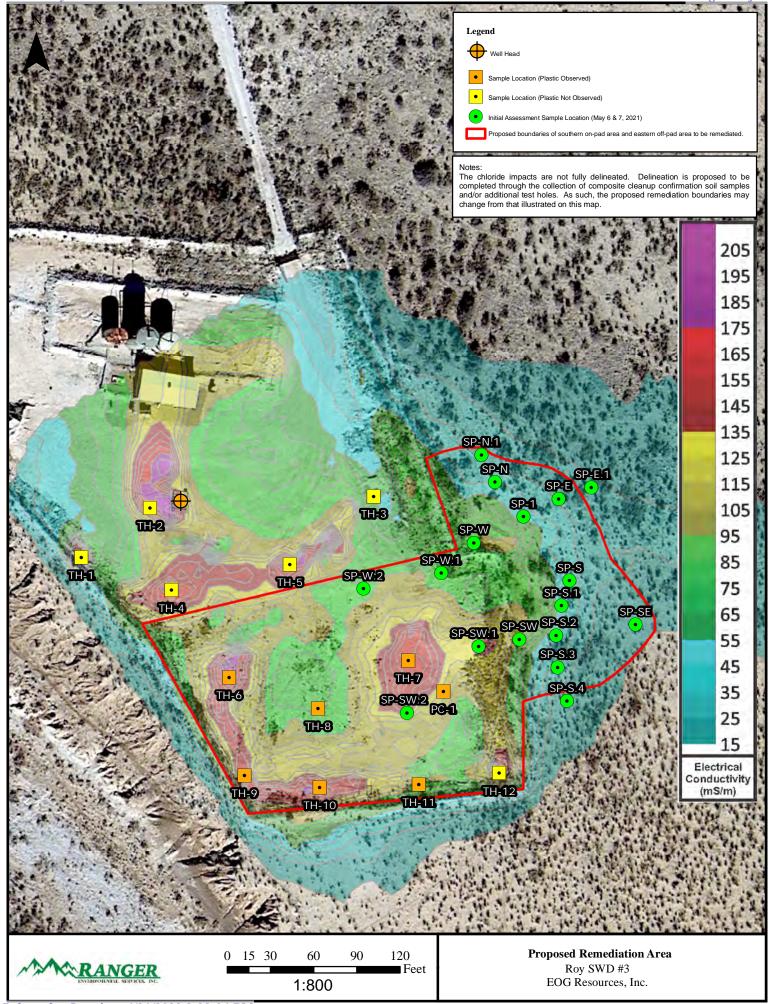


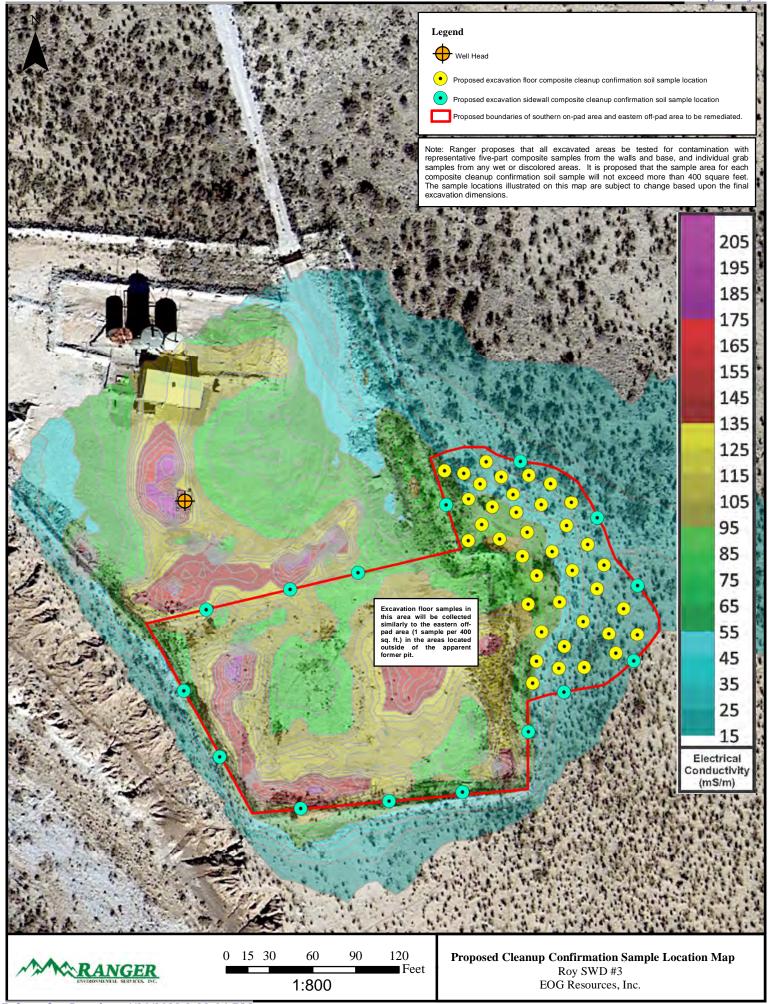


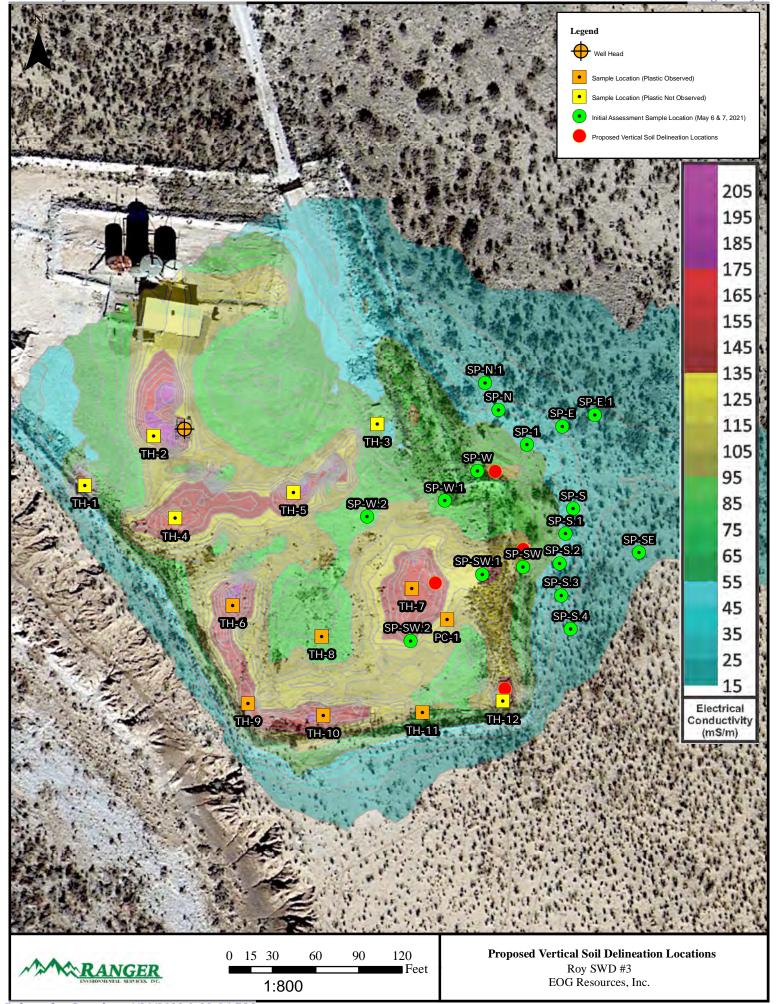












## **TABLES**

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

Analytical Data

Received by OCD: 10/14/2021 1:12:17 PM

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

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

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
tial Site Assessment - May 6-7, 2	2021												
SP-1/0'	5/6/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.3	<47	<14.3	<61.3	1,000
SP-1/4'	5/6/2021	4'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.9	<49	<14.8	<63.8	3,300
SP-1/7'	5/6/2021	7'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.8	<49	<14.7	<63.7	880
SP-1/9'	5/6/2021	9'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.2	<46	<14.2	<60.2	190
SP-1/10'	5/6/2021	10'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.5	<47	<14.4	<61.4	160
SP-E/0'	5/6/2021	0'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.1	<46	<14	<60	<60
SP-E/3'	5/6/2021	3'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.0	<45	<14	<59	980
SP-E/6'	5/6/2021	6'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.9	<49	<14.9	<63.9	480
SP-E/7'	5/6/2021	7'	<0.024	<0.049	<0.049	<0.098	<0.22	<4.9	<9.5	<48	<14.4	<62.4	390
SP-E.1/0'	5/6/2021	0'	<0.024	<0.049	<0.049	<0.098	<0.22	<4.9	<9.5	<48	<14.4	<62.4	<60
SP-E.1/2'	5/6/2021	2'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.4	<47	<14.2	<61.2	85
SP-E.1/5'	5/6/2021	5'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<10	<50	<14.9	<64.9	570
SP-N/0'	5/6/2021	0'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.7	<49	<14.7	<63.7	110
SP-N/1'	5/6/2021	1'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.5	<48	<14.5	<62.5	910
SP-N/5'	5/6/2021	5'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.8	<49	<14.8	<63.8	93
SP-N.1/1'	5/6/2021	1'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<10	<50	<15	<65	<60
SP-N.1/5'	5/6/2021	5'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.6	<48	<14.4	<62.4	610
SP-S/0'	5/6/2021	0'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.2	<46	<14	<60	<60
SP-S/3'	5/6/2021	3'	<0.024	<0.048	<0.048	<0.098	<0.210	<4.9	<9.7	<49	<14.6	<63.6	2,300
SP-S/5'	5/6/2021	5'	<0.024	<0.049	<0.049	<0.098	<0.22	<4.9	<9.7	<49	<14.6	<63.6	390
SP-S.1/2'	5/6/2021	2'	<0.024	<0.049	<0.049	<0.098	<0.22	<4.9	<9.3	<47	<14.2	<61.2	4,300
SP-S.1/8'	5/6/2021	8'	<0.024	<0.049	<0.049	<0.097	<0.21	<4.9	<9.7	<49	<14.6	<63.6	640
SP-S.1/10'	5/6/2021	10'	<0.024	<0.049	<0.049	<0.098	<0.22	<4.9	<9.5	<48	<14.4	<62.4	770
SD C 3/01	E/6/0004	01	-0.004	.0.040	.0.040	.0.007	.0.047	.4.0	-0.0	ا مد	.4.4.4	.00.4	4.000
SP-S.3/2' SP-S.3/4'	5/6/2021 5/6/2021	2' 4'	<0.024 <0.024	<0.048 <0.048	<0.048 <0.048	<0.097 <0.096	<0.217	<4.8 <4.8	<9.6 <9.4	<48 <47	<14.4 <14.2	<62.4 <61.2	1,300 950

Received by OCD: 10/14/2021 1:12:17 PM

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

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

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
SP-S.4/3'	5/6/2021	3'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.5	<47	<14.4	<61.4	600
SP-S.4/5'	5/6/2021	5'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.7	<49	<14.5	<63.5	130
SP-SE/0'	5/6/2021	0'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.3	<47	<14.2	<61.2	<60
SP-SE/3'	5/6/2021	3'	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<9.5	<47	<14.2	<61.2	780
SP-SE/5'	5/6/2021	5'	<0.025	< 0.050	< 0.050	<0.10	<0.225	<5.0	<9.7	<48	<14.7	<62.7	730
SP-W/0'	5/6/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<10	<50	<15	<65	<60
SP-W/2'	5/6/2021	2'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.6	<48	<14.5	<62.5	480
SP-W/5'	5/6/2021	5'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.9	<50	<14.9	<64.9	3,000
SP-W.1/2'	5/6/2021	2'	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	<9.3	<46	<13.9	<59.9	320
SP-W.1/5'	5/6/2021	5'	<0.024	<0.049	<0.049	<0.098	<0.22	<4.9	<9.5	<47	<14.4	<61.4	1,400
SP-W.1/10'	5/7/2021	10	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.9	<50	<14.9	<64.9	1,900
SP-W.1/15'	5/7/2021	15'	<0.024	<0.049	<0.049	<0.098	<0.22	<4.9	<9.6	<48	<14.5	<62.5	1,400
SP-W.1/20'	5/7/2021	20'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.6	<48	<14.5	<62.5	600
SP-SW/2'	5/7/2021	2'	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<9.4	<47	<14.1	<61.1	1,600
SP-SW/7'	5/7/2021	7'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.4	<47	<14.3	<61.3	3,500
SP-SW/10'	5/7/2021	10'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<10	<50	<15	<65	2,300
SP-SW.1/0'	5/7/2021	0'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.8	<49	<14.6	<63.6	<60
SP-SW.1/3'	5/7/2021	3'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.7	<48	<14.6	<62.6	370
SP-SW.1/5'	5/7/2021	5'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.7	<48	<14.7	<62.7	230
SP-SW.1/10'	5/7/2021	10'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.7	<48	<14.5	<62.5	560
SP-SW.1/15'	5/7/2021	15'	<0.023	<0.047	<0.047	<0.093	<0.21	<4.7	<9.7	<48	<14.4	<62.4	240
SP-SW.1/20'	5/7/2021	20'	<0.024	<0.047	<0.047	<0.094	<0.212	<4.7	<9.8	<49	<14.5	<63.5	770
	•	•	•					•					
SP-W.2/1'	5/7/2021	1'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.4	<47	<14.3	<61.3	<60
SP-W.2/3'	5/7/2021	3'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.7	<49	<14.5	<63.5	<60
SP-W.2/5'	5/7/2021	5'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.1	<46	<14.1	<60.1	100
										'			
SP-SW.2/1'	5/7/2021	1'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.6	<48	<14.5	<62.5	<59
SP-SW.2/3'	5/7/2021	3'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	26	66	26	92	770

Received by OCD: 10/14/2021 1:12:17 PM

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

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

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
SP-SW.2/5'	5/7/2021	5'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.5	<47	<14.3	<61.3	1,500
dditional Site Assessment - August	4,2021												
TH-6/0'	8/4/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<9.4	<47	1,200
TH-6/1'	8/4/2021	1'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	23	94	23	120	2,700
TH-7/0'	8/4/2021	0'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.4	<47	<9.4	<47	2,200
TH-7/1.5'	8/4/2021	1.5'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.5	<47	<9.5	<47	530
TH-8/0'	8/4/2021	0'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.3	<47	<9.3	<47	<59
TH-8/9'	8/4/2021	9'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.3	<46	<9.3	<46	120
TH-9/0'	8/4/2021	0'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.3	<47	<9.3	<47	<61
TH-9/10'	8/4/2021	10'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<10	<50	<10	<50	66
		_											
TH-10/0'	8/4/2021	0'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.6	<48	<9.6	<48	1,000
TH-10/0.5'	8/4/2021	0.5'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.9	<50	<9.9	<50	1,400
TH-11/0'	8/4/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<9.8	<49	200
TH-11/0.5'	8/4/2021	0.5'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.7	<48	<9.7	<48	1,900
TH 40/01	0/4/0004	1		0.050	0.050	0.40	0.10	1				I	
TH-12/0'	8/4/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.2	<46	<9.2	<46	<60
TH-12/5'	8/4/2021	5'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.8	<49	<9.8	<49	<60
TH-12/10'	8/4/2021	10'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.7	<49	<9.7	<49	<60
9.15.29.12 NMAC Table 1 Closure ( by a Release (GV		s Impacted	10				50					100	600
19.15.29.13 NMAC Recla (0'-4' Soils O			10 <sup>3</sup>				<b>50</b> <sup>3</sup>					100 <sup>3</sup>	600

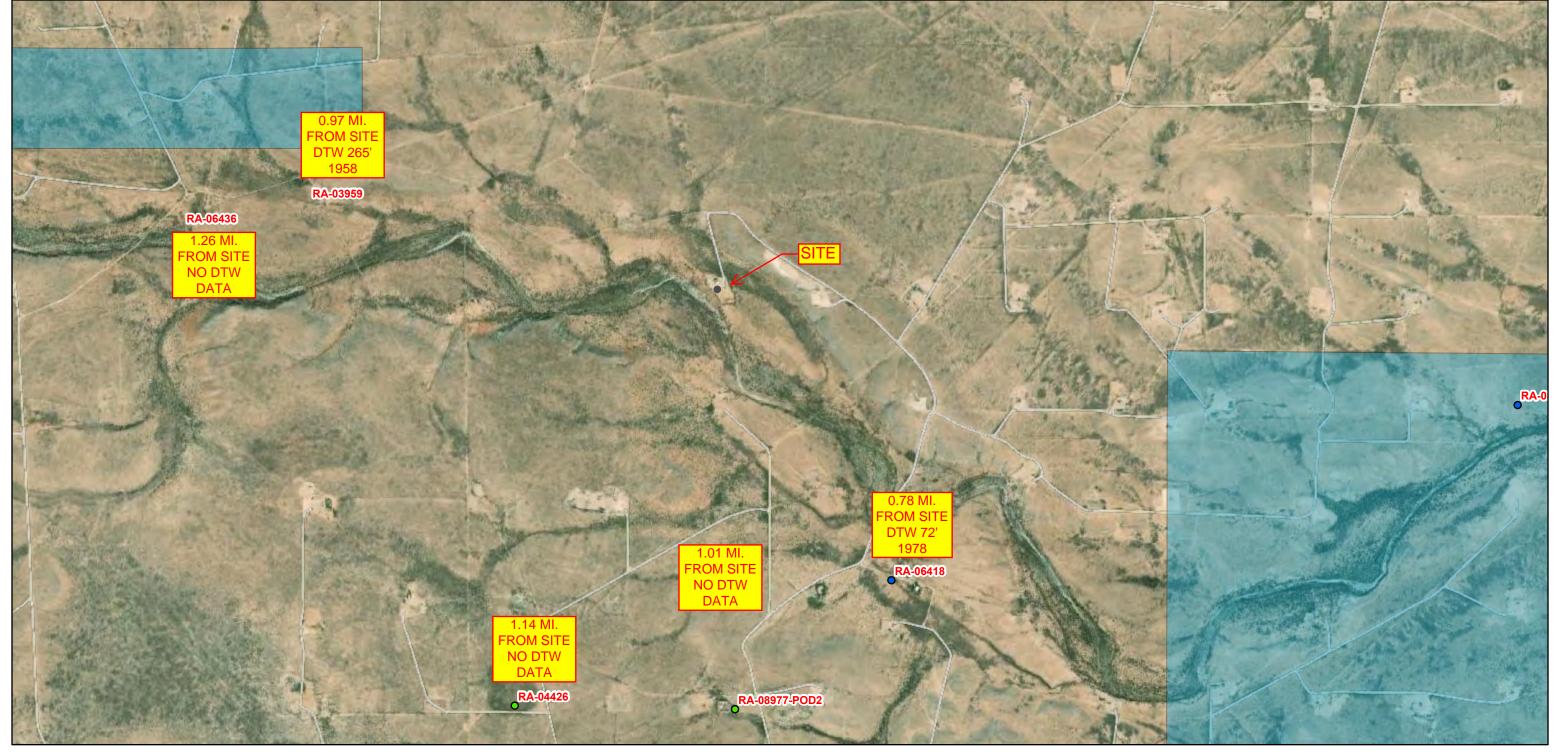
#### Notes

- 1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.
- 2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.
- 3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of the Spill Rule (19.15.29 NMAC) dated September 6, 2019.
- 4. NA Not Analyzed

## **ATTACHMENT 1**

# USGS AND NMOSE WATER WELL DATA

## **NMOSE POD Locations**

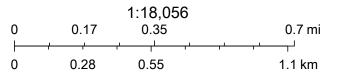


10/8/2021, 10:52:38 AM

GIS WATERS PODs OSE District Boundary SiteBoundaries

Active New Mexico State Trust Lands

Pending Both Estates



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



## New Mexico Office of the State Engineer

## **Point of Diversion Summary**

			(quarters a (quarters				(NAD83 U	TM in meters)		
Well Tag	POD	Number	Q64 Q1	6 Q4	Sec	Tws	Rng	X	Y	
	RA (	06418	1 2	3	17	19S	25E	545925	3613710*	)
Driller Lic	Driller Co	ompai	ny:	TIE	WELL,	CLYDE J.				
Driller Nar	ne:									
Drill Start	Date:	12/11/1978	Drill Fini	sh Da	te:	13	2/18/1978	B Pl	ug Date:	
Log File Da	ate:	12/26/1978	PCW Rev	<b>Date</b>	:			So	urce:	Shallow
Pump Type	e:		Pipe Disc	harge	Size	:		Es	timated Yield	:
Casing Size	e:	7.00	Depth We	ell:		12	20 feet	De	epth Water:	72 feet
	Wate	r Bearing Stratif	ications:	То	р В	ottom	Descri	ption		
				7	2	75	Shallov	v Alluviun	n/Basin Fill	
				10	16	112	Shallov	v Alluviun	n/Basin Fill	

**Casing Perforations:** 

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Top Bottom 51

109

10/8/21 12:23 PM

POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help



## 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)

**POD Number** 

Q64 Q16 Q4 Sec Tws Rng

RA 04426

4 3 18 19S 25E

544412 3613201\*

**Driller License:** 

Well Tag

**Driller Company:** 

**Driller Name:** PETERS

**Drill Start Date: Drill Finish Date:** Log File Date: **PCW Rcv Date:** 

Plug Date: Source:

Pump Type:

Pipe Discharge Size:

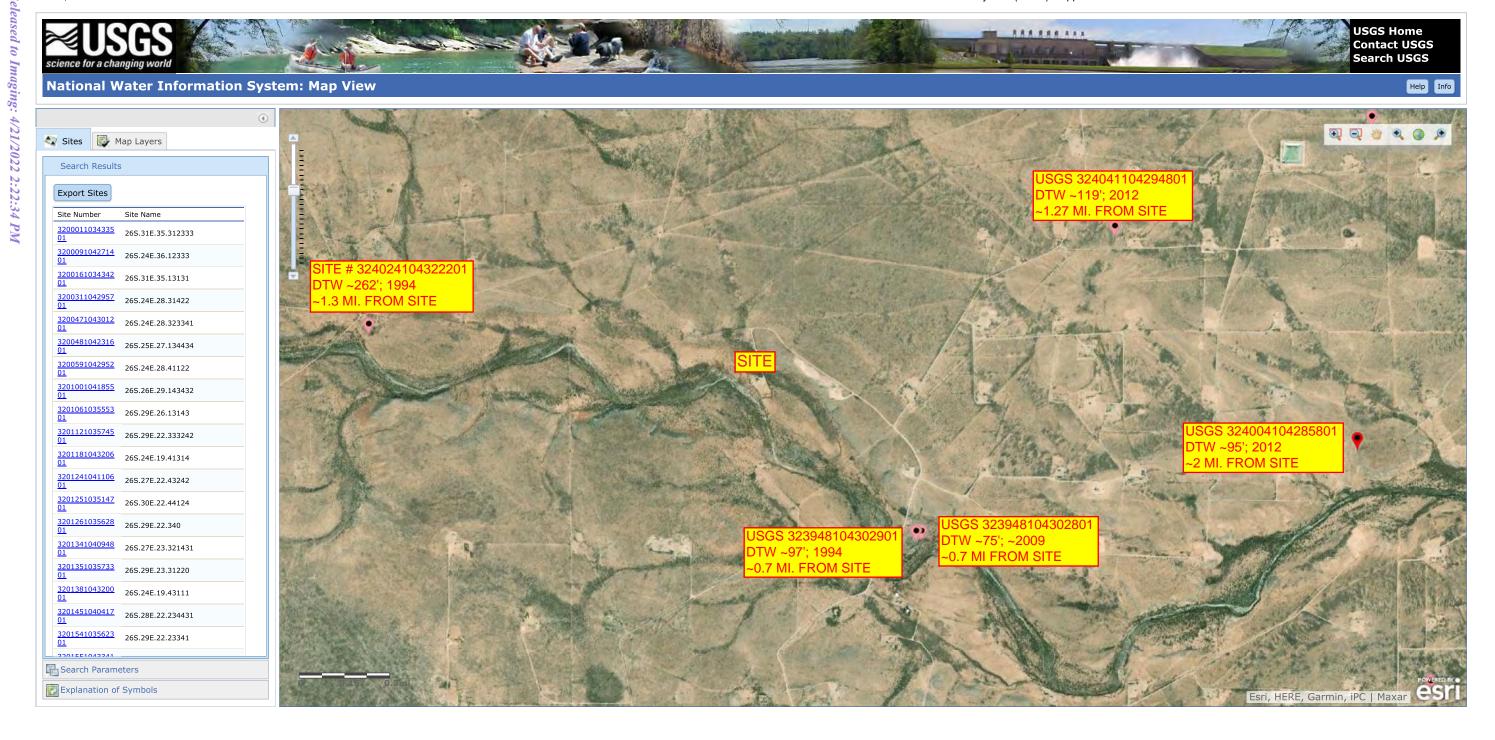
**Casing Size:** 7.00 Depth Well: 715 feet **Estimated Yield:** Depth Water:

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/8/21 1:05 PM

POINT OF DIVERSION SUMMARY





#### Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

## Search Results -- 1 sites found

site\_no list =

323948104302801

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 323948104302801 19S.25E.17.321212

Groundwater: Field measurements V GO

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.

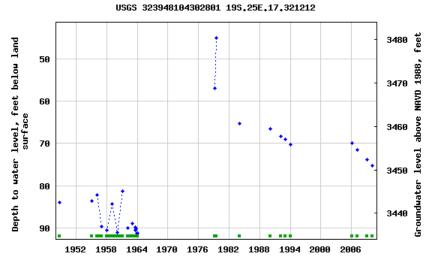
## **Output formats**

Table of data

Tab-separated data

Graph of data

Reselect period



- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u> 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: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-10-08 15:51:31 EDT

0.61 0.53 nadww02





#### Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

## Search Results -- 1 sites found

site\_no list =

323948104302901

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 323948104302901 19S.25E.17.321211

Groundwater: Field measurements

Eddy County, New Mexico

70

Hydrologic Unit Code 13060011

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

Land-surface elevation 3,528 feet above NAVD88

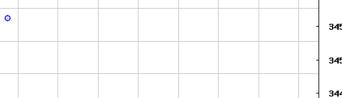
The depth of the well is 120 feet below land surface.

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

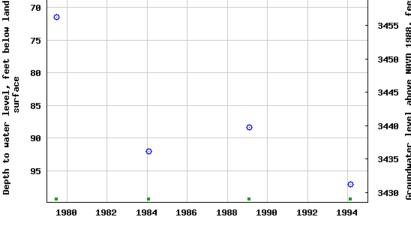
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### **Output formats**





USGS 323948104302901 195,25E,17,321211



Period of approved data

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

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: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-10-08 15:49:26 EDT

0.55 0.48 nadww02





#### Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

## Search Results -- 1 sites found

site\_no list =

324004104285801

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 324004104285801 19S.25E.16.22332

Groundwater: Field measurements V GO

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.

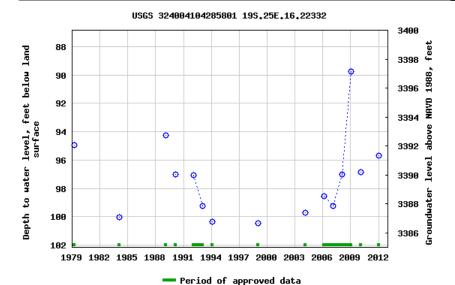
## **Output formats**

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. <u>Download a presentation-quality graph</u> 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: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-10-08 15:55:24 EDT

0.59 0.5 nadww02





Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

## Search Results -- 1 sites found

site\_no list =

324024104322201

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 324024104322201 19S.24E.12.413200

Groundwater: Field measurements

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 aguifer system (S400RSWLBS) national aguifer.

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

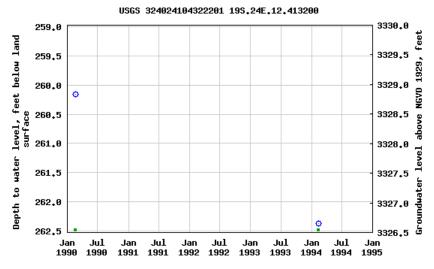
#### **Output formats**

Table of data

Tab-separated data

Graph of data

Reselect period



Period of approved data

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

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: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-10-08 15:22:52 EDT

0.71 0.63 nadww02





#### Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

## 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

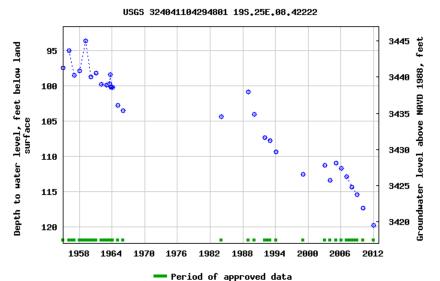
The depth of the well is 142 feet below land surface.

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**





Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u> Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

FOIA

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: <u>USGS Water Data Support Team</u>

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

0.6 0.51 nadww02



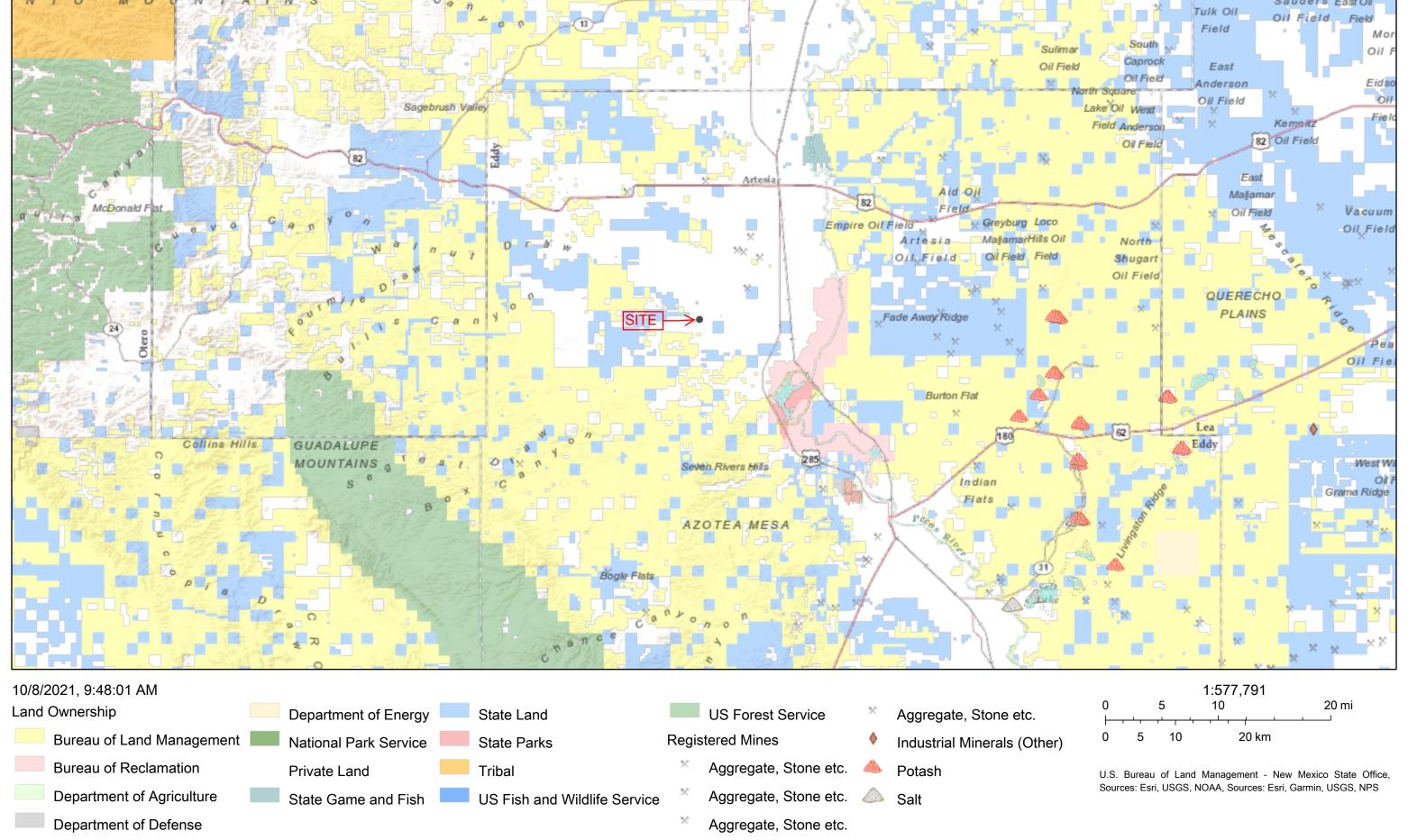
# **ATTACHMENT 2**

# NM ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT ACTIVE MINES MAP

Received by OCD: 10/14/2021 1:12:17 PM

Page 49 of 168

# Active Mines in New Mexico



# **ATTACHMENT 3**

# PHOTOGRAPHIC DOCUMENTATION

## PHOTOGRAPHIC DOCUMENTATION



Typical view of May 6-7, 2021 test hole installation process.



Additional view of May 6-7, 2021 typical test hole installation process.



View of the June 2021 EM survey activities.



Additional view of the June 2021 EM survey activities.



Typical view of plastic liner encountered in test holes located over apparent closed pit.

# **ATTACHMENT 4**

LABORATORY ANALYTICAL REPORTS



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

May 17, 2021

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

RE: Roy SWD 3 OrderNo.: 2105387

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 53 sample(s) on 5/7/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-1/0'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 7:08:00 AM

 Lab ID:
 2105387-001
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1000	60	mg/Kg	20	5/11/2021 7:27:06 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/11/2021 11:51:15 AM	59906
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/11/2021 11:51:15 AM	59906
Surr: DNOP	99.0	70-130	%Rec	1	5/11/2021 11:51:15 AM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2021 2:40:00 PM	59896
Surr: BFB	87.0	70-130	%Rec	1	5/10/2021 2:40:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/10/2021 2:40:00 PM	59896
Toluene	ND	0.050	mg/Kg	1	5/10/2021 2:40:00 PM	59896
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2021 2:40:00 PM	59896
Xylenes, Total	ND	0.10	mg/Kg	1	5/10/2021 2:40:00 PM	59896
Surr: 4-Bromofluorobenzene	83.7	70-130	%Rec	1	5/10/2021 2:40:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 61

## **Analytical Report**

Lab Order **2105387**Date Reported: **5/17/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-1/4'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 8:44:00 AM

 Lab ID:
 2105387-002
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	3300	150	mg/Kg	50	5/12/2021 3:18:27 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/11/2021 12:20:23 PM	59906
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/11/2021 12:20:23 PM	59906
Surr: DNOP	91.3	70-130	%Rec	1	5/11/2021 12:20:23 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/10/2021 3:39:00 PM	59896
Surr: BFB	91.2	70-130	%Rec	1	5/10/2021 3:39:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst:	CCM
Benzene	ND	0.025	mg/Kg	1	5/10/2021 3:39:00 PM	59896
Toluene	ND	0.049	mg/Kg	1	5/10/2021 3:39:00 PM	59896
Ethylbenzene	ND	0.049	mg/Kg	1	5/10/2021 3:39:00 PM	59896
Xylenes, Total	ND	0.099	mg/Kg	1	5/10/2021 3:39:00 PM	59896
Surr: 4-Bromofluorobenzene	87.2	70-130	%Rec	1	5/10/2021 3:39:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-1/7'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 9:03:00 AM

 Lab ID:
 2105387-003
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	880	60	mg/Kg	20	5/11/2021 7:51:47 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/11/2021 12:30:08 PM	59906
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/11/2021 12:30:08 PM	59906
Surr: DNOP	97.5	70-130	%Rec	1	5/11/2021 12:30:08 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/10/2021 3:59:00 PM	59896
Surr: BFB	87.7	70-130	%Rec	1	5/10/2021 3:59:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst:	CCM
Benzene	ND	0.025	mg/Kg	1	5/10/2021 3:59:00 PM	59896
Toluene	ND	0.049	mg/Kg	1	5/10/2021 3:59:00 PM	59896
Ethylbenzene	ND	0.049	mg/Kg	1	5/10/2021 3:59:00 PM	59896
Xylenes, Total	ND	0.098	mg/Kg	1	5/10/2021 3:59:00 PM	59896
Surr: 4-Bromofluorobenzene	85.2	70-130	%Rec	1	5/10/2021 3:59:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-1/9'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 9:06:00 AM

 Lab ID:
 2105387-004
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	190	61	mg/Kg	20	5/11/2021 8:04:07 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/11/2021 12:39:53 PM	59906
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/11/2021 12:39:53 PM	59906
Surr: DNOP	99.2	70-130	%Rec	1	5/11/2021 12:39:53 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2021 4:19:00 PM	59896
Surr: BFB	87.5	70-130	%Rec	1	5/10/2021 4:19:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/10/2021 4:19:00 PM	59896
Toluene	ND	0.050	mg/Kg	1	5/10/2021 4:19:00 PM	59896
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2021 4:19:00 PM	59896
Xylenes, Total	ND	0.099	mg/Kg	1	5/10/2021 4:19:00 PM	59896
Surr: 4-Bromofluorobenzene	84.4	70-130	%Rec	1	5/10/2021 4:19:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-1/10'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 9:09:00 AM

 Lab ID:
 2105387-005
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	160	60	mg/Kg	20	5/11/2021 8:16:28 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/11/2021 12:49:39 PM	59906
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/11/2021 12:49:39 PM	59906
Surr: DNOP	98.1	70-130	%Rec	1	5/11/2021 12:49:39 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/10/2021 4:39:00 PM	59896
Surr: BFB	88.9	70-130	%Rec	1	5/10/2021 4:39:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/10/2021 4:39:00 PM	59896
Toluene	ND	0.049	mg/Kg	1	5/10/2021 4:39:00 PM	59896
Ethylbenzene	ND	0.049	mg/Kg	1	5/10/2021 4:39:00 PM	59896
Xylenes, Total	ND	0.098	mg/Kg	1	5/10/2021 4:39:00 PM	59896
Surr: 4-Bromofluorobenzene	85.0	70-130	%Rec	1	5/10/2021 4:39:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-E/0'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 7:12:00 AM

 Lab ID:
 2105387-006
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	<b>Qual Units</b>	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	5/11/2021 8:28:49 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	5/11/2021 3:25:06 PM	59906
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/11/2021 3:25:06 PM	59906
Surr: DNOP	93.9	70-130	%Rec	1	5/11/2021 3:25:06 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/10/2021 4:59:00 PM	59896
Surr: BFB	95.8	70-130	%Rec	1	5/10/2021 4:59:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/10/2021 4:59:00 PM	59896
Toluene	ND	0.049	mg/Kg	1	5/10/2021 4:59:00 PM	59896
Ethylbenzene	ND	0.049	mg/Kg	1	5/10/2021 4:59:00 PM	59896
Xylenes, Total	ND	0.099	mg/Kg	1	5/10/2021 4:59:00 PM	59896
Surr: 4-Bromofluorobenzene	87.1	70-130	%Rec	1	5/10/2021 4:59:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-E/3'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 9:33:00 AM

 Lab ID:
 2105387-007
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	<b>Qual Units</b>	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	980	60	mg/Kg	20	5/11/2021 8:41:10 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	5/11/2021 12:59:26 PM	59906
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/11/2021 12:59:26 PM	59906
Surr: DNOP	91.9	70-130	%Rec	1	5/11/2021 12:59:26 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2021 6:18:00 PM	59896
Surr: BFB	85.1	70-130	%Rec	1	5/10/2021 6:18:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/10/2021 6:18:00 PM	59896
Toluene	ND	0.050	mg/Kg	1	5/10/2021 6:18:00 PM	59896
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2021 6:18:00 PM	59896
Xylenes, Total	ND	0.099	mg/Kg	1	5/10/2021 6:18:00 PM	59896
Surr: 4-Bromofluorobenzene	80.2	70-130	%Rec	1	5/10/2021 6:18:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-E/6'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 9:48:00 AM

 Lab ID:
 2105387-008
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	480	60	mg/Kg	20	5/11/2021 8:53:31 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/11/2021 1:09:15 PM	59906
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/11/2021 1:09:15 PM	59906
Surr: DNOP	92.9	70-130	%Rec	1	5/11/2021 1:09:15 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2021 6:38:00 PM	59896
Surr: BFB	88.1	70-130	%Rec	1	5/10/2021 6:38:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/10/2021 6:38:00 PM	59896
Toluene	ND	0.050	mg/Kg	1	5/10/2021 6:38:00 PM	59896
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2021 6:38:00 PM	59896
Xylenes, Total	ND	0.10	mg/Kg	1	5/10/2021 6:38:00 PM	59896
Surr: 4-Bromofluorobenzene	84.6	70-130	%Rec	1	5/10/2021 6:38:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-E/7'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 9:50:00 AM

 Lab ID:
 2105387-009
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	390	60	mg/Kg	20	5/11/2021 9:30:32 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/11/2021 1:19:14 PM	59906
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/11/2021 1:19:14 PM	59906
Surr: DNOP	98.8	70-130	%Rec	1	5/11/2021 1:19:14 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/10/2021 6:58:00 PM	59896
Surr: BFB	91.9	70-130	%Rec	1	5/10/2021 6:58:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	5/10/2021 6:58:00 PM	59896
Toluene	ND	0.049	mg/Kg	1	5/10/2021 6:58:00 PM	59896
Ethylbenzene	ND	0.049	mg/Kg	1	5/10/2021 6:58:00 PM	59896
Xylenes, Total	ND	0.098	mg/Kg	1	5/10/2021 6:58:00 PM	59896
Surr: 4-Bromofluorobenzene	86.5	70-130	%Rec	1	5/10/2021 6:58:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-E.1/0'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 10:03:00 AM

 Lab ID:
 2105387-010
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	5/11/2021 9:42:53 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/11/2021 3:05:30 PM	59906
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/11/2021 3:05:30 PM	59906
Surr: DNOP	83.7	70-130	%Rec	1	5/11/2021 3:05:30 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/10/2021 7:18:00 PM	59896
Surr: BFB	93.3	70-130	%Rec	1	5/10/2021 7:18:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	5/10/2021 7:18:00 PM	59896
Toluene	ND	0.049	mg/Kg	1	5/10/2021 7:18:00 PM	59896
Ethylbenzene	ND	0.049	mg/Kg	1	5/10/2021 7:18:00 PM	59896
Xylenes, Total	ND	0.098	mg/Kg	1	5/10/2021 7:18:00 PM	59896
Surr: 4-Bromofluorobenzene	84.4	70-130	%Rec	1	5/10/2021 7:18:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-E.1/2'

**Project:** Roy SWD 3
 Collection Date: 5/6/2021 10:05:00 AM

 **Lab ID:** 2105387-011
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	85	60	mg/Kg	20	5/11/2021 9:55:14 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/11/2021 1:29:14 PM	59906
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/11/2021 1:29:14 PM	59906
Surr: DNOP	94.8	70-130	%Rec	1	5/11/2021 1:29:14 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/10/2021 7:38:00 PM	59896
Surr: BFB	88.8	70-130	%Rec	1	5/10/2021 7:38:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	5/10/2021 7:38:00 PM	59896
Toluene	ND	0.048	mg/Kg	1	5/10/2021 7:38:00 PM	59896
Ethylbenzene	ND	0.048	mg/Kg	1	5/10/2021 7:38:00 PM	59896
Xylenes, Total	ND	0.097	mg/Kg	1	5/10/2021 7:38:00 PM	59896
Surr: 4-Bromofluorobenzene	84.8	70-130	%Rec	1	5/10/2021 7:38:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-E.1/5'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 10:09:00 AM

 Lab ID:
 2105387-012
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	570	60	mg/Kg	20	5/11/2021 10:07:36 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/11/2021 1:39:11 PM	59906
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/11/2021 1:39:11 PM	59906
Surr: DNOP	101	70-130	%Rec	1	5/11/2021 1:39:11 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/10/2021 7:58:00 PM	59896
Surr: BFB	90.8	70-130	%Rec	1	5/10/2021 7:58:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/10/2021 7:58:00 PM	59896
Toluene	ND	0.049	mg/Kg	1	5/10/2021 7:58:00 PM	59896
Ethylbenzene	ND	0.049	mg/Kg	1	5/10/2021 7:58:00 PM	59896
Xylenes, Total	ND	0.099	mg/Kg	1	5/10/2021 7:58:00 PM	59896
Surr: 4-Bromofluorobenzene	85.6	70-130	%Rec	1	5/10/2021 7:58:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-N/0'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 7:10:00 AM

 Lab ID:
 2105387-013
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	110	59	mg/Kg	20	5/11/2021 10:19:56 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/11/2021 1:59:05 PM	59906
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/11/2021 1:59:05 PM	59906
Surr: DNOP	73.6	70-130	%Rec	1	5/11/2021 1:59:05 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2021 8:18:00 PM	59896
Surr: BFB	90.0	70-130	%Rec	1	5/10/2021 8:18:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/10/2021 8:18:00 PM	59896
Toluene	ND	0.050	mg/Kg	1	5/10/2021 8:18:00 PM	59896
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2021 8:18:00 PM	59896
Xylenes, Total	ND	0.099	mg/Kg	1	5/10/2021 8:18:00 PM	59896
Surr: 4-Bromofluorobenzene	85.1	70-130	%Rec	1	5/10/2021 8:18:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-N/1'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 10:31:00 AM

 Lab ID:
 2105387-014
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	910	61	mg/Kg	20	5/11/2021 10:32:17 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/11/2021 2:09:03 PM	59906
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/11/2021 2:09:03 PM	59906
Surr: DNOP	84.2	70-130	%Rec	1	5/11/2021 2:09:03 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2021 8:38:00 PM	59896
Surr: BFB	91.5	70-130	%Rec	1	5/10/2021 8:38:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/10/2021 8:38:00 PM	59896
Toluene	ND	0.050	mg/Kg	1	5/10/2021 8:38:00 PM	59896
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2021 8:38:00 PM	59896
Xylenes, Total	ND	0.099	mg/Kg	1	5/10/2021 8:38:00 PM	59896
Surr: 4-Bromofluorobenzene	87.1	70-130	%Rec	1	5/10/2021 8:38:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-N/5'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 10:37:00 AM

 Lab ID:
 2105387-015
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	93	60	mg/Kg	20	5/11/2021 10:44:37 PM	59952
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/11/2021 2:36:05 PM	59906
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/11/2021 2:36:05 PM	59906
Surr: DNOP	103	70-130	%Rec	1	5/11/2021 2:36:05 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2021 8:58:00 PM	59896
Surr: BFB	88.9	70-130	%Rec	1	5/10/2021 8:58:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/10/2021 8:58:00 PM	59896
Toluene	ND	0.050	mg/Kg	1	5/10/2021 8:58:00 PM	59896
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2021 8:58:00 PM	59896
Xylenes, Total	ND	0.099	mg/Kg	1	5/10/2021 8:58:00 PM	59896
Surr: 4-Bromofluorobenzene	85.3	70-130	%Rec	1	5/10/2021 8:58:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 15 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-N.1/1'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 11:55:00 AM

 Lab ID:
 2105387-016
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	5/12/2021 10:20:41 AM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/11/2021 2:55:36 PM	59906
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/11/2021 2:55:36 PM	59906
Surr: DNOP	76.9	70-130	%Rec	1	5/11/2021 2:55:36 PM	59906
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2021 9:18:00 PM	59896
Surr: BFB	90.4	70-130	%Rec	1	5/10/2021 9:18:00 PM	59896
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/10/2021 9:18:00 PM	59896
Toluene	ND	0.050	mg/Kg	1	5/10/2021 9:18:00 PM	59896
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2021 9:18:00 PM	59896
Xylenes, Total	ND	0.10	mg/Kg	1	5/10/2021 9:18:00 PM	59896
Surr: 4-Bromofluorobenzene	86.0	70-130	%Rec	1	5/10/2021 9:18:00 PM	59896

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 16 of 61

## **Analytical Report**

Lab Order **2105387**Date Reported: **5/17/2021** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-N.1/5'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 11:00:00 AM

 Lab ID:
 2105387-017
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	610	60	mg/Kg	20	5/12/2021 11:22:44 AM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/12/2021 9:37:10 PM	59932
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 9:37:10 PM	59932
Surr: DNOP	103	70-130	%Rec	1	5/12/2021 9:37:10 PM	59932
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2021 10:44:48 AM	59919
Surr: BFB	92.3	70-130	%Rec	1	5/11/2021 10:44:48 AM	59919
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2021 10:44:48 AM	59919
Toluene	ND	0.048	mg/Kg	1	5/11/2021 10:44:48 AM	59919
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2021 10:44:48 AM	59919
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2021 10:44:48 AM	59919
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	5/11/2021 10:44:48 AM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 17 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-S/0'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 7:14:00 AM

 Lab ID:
 2105387-018
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	VP .
Chloride	ND	60	mg/Kg	20	5/12/2021 11:59:58 AM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/12/2021 11:08:10 PM	59932
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/12/2021 11:08:10 PM	59932
Surr: DNOP	122	70-130	%Rec	1	5/12/2021 11:08:10 PM	59932
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2021 11:55:24 AM	59919
Surr: BFB	93.9	70-130	%Rec	1	5/11/2021 11:55:24 AM	59919
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2021 11:55:24 AM	59919
Toluene	ND	0.048	mg/Kg	1	5/11/2021 11:55:24 AM	59919
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2021 11:55:24 AM	59919
Xylenes, Total	ND	0.096	mg/Kg	1	5/11/2021 11:55:24 AM	59919
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	5/11/2021 11:55:24 AM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 18 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-S/3'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 11:22:00 AM

 Lab ID:
 2105387-019
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	2300	60	mg/Kg	20	5/12/2021 12:12:22 PM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/12/2021 9:47:19 PM	59932
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/12/2021 9:47:19 PM	59932
Surr: DNOP	110	70-130	%Rec	1	5/12/2021 9:47:19 PM	59932
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 1:06:14 PM	59919
Surr: BFB	91.8	70-130	%Rec	1	5/11/2021 1:06:14 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	5/11/2021 1:06:14 PM	59919
Toluene	ND	0.049	mg/Kg	1	5/11/2021 1:06:14 PM	59919
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 1:06:14 PM	59919
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2021 1:06:14 PM	59919
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	5/11/2021 1:06:14 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 19 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-S/5'

**Project:** Roy SWD 3
 Collection Date: 5/6/2021 11:24:00 AM

 **Lab ID:** 2105387-020
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	390	60	mg/Kg	20	5/12/2021 12:24:46 PM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/12/2021 9:57:30 PM	59932
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/12/2021 9:57:30 PM	59932
Surr: DNOP	105	70-130	%Rec	1	5/12/2021 9:57:30 PM	59932
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 1:29:42 PM	59919
Surr: BFB	91.6	70-130	%Rec	1	5/11/2021 1:29:42 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2021 1:29:42 PM	59919
Toluene	ND	0.049	mg/Kg	1	5/11/2021 1:29:42 PM	59919
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 1:29:42 PM	59919
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2021 1:29:42 PM	59919
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	5/11/2021 1:29:42 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

porting Limit Page 20 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-S.1/2'

**Project:** Roy SWD 3
 Collection Date: 5/6/2021 12:08:00 PM

 **Lab ID:** 2105387-021
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	4300	150	mg/Kg	50	5/12/2021 4:20:29 PM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/12/2021 10:07:38 PM	59932
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/12/2021 10:07:38 PM	59932
Surr: DNOP	95.3	70-130	%Rec	1	5/12/2021 10:07:38 PM	59932
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 1:53:11 PM	59919
Surr: BFB	90.4	70-130	%Rec	1	5/11/2021 1:53:11 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2021 1:53:11 PM	59919
Toluene	ND	0.049	mg/Kg	1	5/11/2021 1:53:11 PM	59919
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 1:53:11 PM	59919
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2021 1:53:11 PM	59919
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/11/2021 1:53:11 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 21 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-S.1/8'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 12:29:00 PM

 Lab ID:
 2105387-022
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	640	59	mg/Kg	20	5/12/2021 12:49:35 PM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/12/2021 10:17:47 PM	59932
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/12/2021 10:17:47 PM	59932
Surr: DNOP	108	70-130	%Rec	1	5/12/2021 10:17:47 PM	59932
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 2:16:38 PM	59919
Surr: BFB	90.6	70-130	%Rec	1	5/11/2021 2:16:38 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2021 2:16:38 PM	59919
Toluene	ND	0.049	mg/Kg	1	5/11/2021 2:16:38 PM	59919
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 2:16:38 PM	59919
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2021 2:16:38 PM	59919
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/11/2021 2:16:38 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 22 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-S.1/10'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 12:41:00 PM

 Lab ID:
 2105387-023
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	770	60	mg/Kg	20	5/12/2021 1:26:48 PM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/12/2021 10:27:53 PM	59932
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 10:27:53 PM	59932
Surr: DNOP	97.9	70-130	%Rec	1	5/12/2021 10:27:53 PM	59932
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 2:40:12 PM	59919
Surr: BFB	94.0	70-130	%Rec	1	5/11/2021 2:40:12 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2021 2:40:12 PM	59919
Toluene	ND	0.049	mg/Kg	1	5/11/2021 2:40:12 PM	59919
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 2:40:12 PM	59919
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2021 2:40:12 PM	59919
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	5/11/2021 2:40:12 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 23 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-S.3/2'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 1:18:00 PM

 Lab ID:
 2105387-024
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1300	60	mg/Kg	20	5/12/2021 1:39:13 PM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/12/2021 10:38:00 PM	59932
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 10:38:00 PM	59932
Surr: DNOP	96.2	70-130	%Rec	1	5/12/2021 10:38:00 PM	59932
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2021 3:03:37 PM	59919
Surr: BFB	93.8	70-130	%Rec	1	5/11/2021 3:03:37 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2021 3:03:37 PM	59919
Toluene	ND	0.048	mg/Kg	1	5/11/2021 3:03:37 PM	59919
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2021 3:03:37 PM	59919
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2021 3:03:37 PM	59919
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	5/11/2021 3:03:37 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 24 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-S.3/4'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 1:20:00 PM

 Lab ID:
 2105387-025
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	950	60	mg/Kg	20	5/12/2021 1:51:37 PM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/12/2021 10:48:04 PM	59932
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/12/2021 10:48:04 PM	59932
Surr: DNOP	94.1	70-130	%Rec	1	5/12/2021 10:48:04 PM	59932
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2021 4:37:55 PM	59919
Surr: BFB	91.3	70-130	%Rec	1	5/11/2021 4:37:55 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2021 4:37:55 PM	59919
Toluene	ND	0.048	mg/Kg	1	5/11/2021 4:37:55 PM	59919
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2021 4:37:55 PM	59919
Xylenes, Total	ND	0.096	mg/Kg	1	5/11/2021 4:37:55 PM	59919
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/11/2021 4:37:55 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 25 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-S.4/3'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 1:58:00 PM

 Lab ID:
 2105387-026
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	600	60	mg/Kg	20	5/12/2021 2:04:01 PM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/12/2021 10:58:08 PM	59932
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/12/2021 10:58:08 PM	59932
Surr: DNOP	109	70-130	%Rec	1	5/12/2021 10:58:08 PM	59932
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 5:01:29 PM	59919
Surr: BFB	94.6	70-130	%Rec	1	5/11/2021 5:01:29 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2021 5:01:29 PM	59919
Toluene	ND	0.049	mg/Kg	1	5/11/2021 5:01:29 PM	59919
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 5:01:29 PM	59919
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2021 5:01:29 PM	59919
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	5/11/2021 5:01:29 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 26 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-S.4/5'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 2:01:00 PM

 Lab ID:
 2105387-027
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	130	60	mg/Kg	20	5/12/2021 2:16:25 PM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/12/2021 1:04:05 PM	59944
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/12/2021 1:04:05 PM	59944
Surr: DNOP	108	70-130	%Rec	1	5/12/2021 1:04:05 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2021 5:24:56 PM	59919
Surr: BFB	91.8	70-130	%Rec	1	5/11/2021 5:24:56 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2021 5:24:56 PM	59919
Toluene	ND	0.048	mg/Kg	1	5/11/2021 5:24:56 PM	59919
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2021 5:24:56 PM	59919
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2021 5:24:56 PM	59919
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	5/11/2021 5:24:56 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 27 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SE/0'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 2:16:00 PM

 Lab ID:
 2105387-028
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	5/12/2021 2:28:49 PM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/12/2021 5:49:39 PM	59944
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/12/2021 5:49:39 PM	59944
Surr: DNOP	98.9	70-130	%Rec	1	5/12/2021 5:49:39 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 5:48:44 PM	59919
Surr: BFB	90.8	70-130	%Rec	1	5/11/2021 5:48:44 PM	59919
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	5/11/2021 5:48:44 PM	59919
Toluene	ND	0.049	mg/Kg	1	5/11/2021 5:48:44 PM	59919
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 5:48:44 PM	59919
Xylenes, Total	ND	0.099	mg/Kg	1	5/11/2021 5:48:44 PM	59919
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/11/2021 5:48:44 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 28 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SE/3'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 2:21:00 PM

 Lab ID:
 2105387-029
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	780	60	mg/Kg	20	5/12/2021 2:41:14 PM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/12/2021 1:13:50 PM	59944
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/12/2021 1:13:50 PM	59944
Surr: DNOP	103	70-130	%Rec	1	5/12/2021 1:13:50 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/11/2021 6:12:09 PM	59919
Surr: BFB	90.2	70-130	%Rec	1	5/11/2021 6:12:09 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2021 6:12:09 PM	59919
Toluene	ND	0.047	mg/Kg	1	5/11/2021 6:12:09 PM	59919
Ethylbenzene	ND	0.047	mg/Kg	1	5/11/2021 6:12:09 PM	59919
Xylenes, Total	ND	0.095	mg/Kg	1	5/11/2021 6:12:09 PM	59919
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/11/2021 6:12:09 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 29 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SE/5'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 2:22:00 PM

 Lab ID:
 2105387-030
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	730	60	mg/Kg	20	5/12/2021 2:53:38 PM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/12/2021 1:23:33 PM	59944
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 1:23:33 PM	59944
Surr: DNOP	93.7	70-130	%Rec	1	5/12/2021 1:23:33 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/11/2021 6:35:37 PM	59919
Surr: BFB	93.2	70-130	%Rec	1	5/11/2021 6:35:37 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/11/2021 6:35:37 PM	59919
Toluene	ND	0.050	mg/Kg	1	5/11/2021 6:35:37 PM	59919
Ethylbenzene	ND	0.050	mg/Kg	1	5/11/2021 6:35:37 PM	59919
Xylenes, Total	ND	0.10	mg/Kg	1	5/11/2021 6:35:37 PM	59919
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	5/11/2021 6:35:37 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 30 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-W/0'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 7:16:00 AM

 Lab ID:
 2105387-031
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	5/12/2021 3:06:02 PM	59962
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/12/2021 1:33:22 PM	59944
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/12/2021 1:33:22 PM	59944
Surr: DNOP	103	70-130	%Rec	1	5/12/2021 1:33:22 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/11/2021 6:59:30 PM	59919
Surr: BFB	89.6	70-130	%Rec	1	5/11/2021 6:59:30 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	5/11/2021 6:59:30 PM	59919
Toluene	ND	0.050	mg/Kg	1	5/11/2021 6:59:30 PM	59919
Ethylbenzene	ND	0.050	mg/Kg	1	5/11/2021 6:59:30 PM	59919
Xylenes, Total	ND	0.10	mg/Kg	1	5/11/2021 6:59:30 PM	59919
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	5/11/2021 6:59:30 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 31 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-W/2'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 2:55:00 PM

 Lab ID:
 2105387-032
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	480	60	mg/Kg	20	5/12/2021 4:32:53 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/12/2021 1:43:08 PM	59944
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 1:43:08 PM	59944
Surr: DNOP	102	70-130	%Rec	1	5/12/2021 1:43:08 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 7:23:12 PM	59919
Surr: BFB	91.9	70-130	%Rec	1	5/11/2021 7:23:12 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/11/2021 7:23:12 PM	59919
Toluene	ND	0.049	mg/Kg	1	5/11/2021 7:23:12 PM	59919
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 7:23:12 PM	59919
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2021 7:23:12 PM	59919
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	5/11/2021 7:23:12 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 32 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-W/5'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 3:03:00 PM

 Lab ID:
 2105387-033
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	3000	150	mg/Kg	50	5/13/2021 5:22:04 AM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/12/2021 1:52:55 PM	59944
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/12/2021 1:52:55 PM	59944
Surr: DNOP	109	70-130	%Rec	1	5/12/2021 1:52:55 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/11/2021 7:46:40 PM	59919
Surr: BFB	92.1	70-130	%Rec	1	5/11/2021 7:46:40 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/11/2021 7:46:40 PM	59919
Toluene	ND	0.050	mg/Kg	1	5/11/2021 7:46:40 PM	59919
Ethylbenzene	ND	0.050	mg/Kg	1	5/11/2021 7:46:40 PM	59919
Xylenes, Total	ND	0.10	mg/Kg	1	5/11/2021 7:46:40 PM	59919
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	5/11/2021 7:46:40 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 33 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-W.1/2'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 4:05:00 PM

 Lab ID:
 2105387-034
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	320	60	mg/Kg	20	5/12/2021 4:57:43 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/12/2021 2:02:52 PM	59944
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/12/2021 2:02:52 PM	59944
Surr: DNOP	114	70-130	%Rec	1	5/12/2021 2:02:52 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/11/2021 8:10:06 PM	59919
Surr: BFB	92.2	70-130	%Rec	1	5/11/2021 8:10:06 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	5/11/2021 8:10:06 PM	59919
Toluene	ND	0.046	mg/Kg	1	5/11/2021 8:10:06 PM	59919
Ethylbenzene	ND	0.046	mg/Kg	1	5/11/2021 8:10:06 PM	59919
Xylenes, Total	ND	0.092	mg/Kg	1	5/11/2021 8:10:06 PM	59919
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	5/11/2021 8:10:06 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 34 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-W.1/5'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 4:25:00 PM

 Lab ID:
 2105387-035
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1400	60	mg/Kg	20	5/12/2021 5:10:07 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/12/2021 2:12:49 PM	59944
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/12/2021 2:12:49 PM	59944
Surr: DNOP	107	70-130	%Rec	1	5/12/2021 2:12:49 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 8:56:55 PM	59919
Surr: BFB	93.2	70-130	%Rec	1	5/11/2021 8:56:55 PM	59919
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2021 8:56:55 PM	59919
Toluene	ND	0.049	mg/Kg	1	5/11/2021 8:56:55 PM	59919
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 8:56:55 PM	59919
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2021 8:56:55 PM	59919
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	5/11/2021 8:56:55 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 35 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-W.1/10'

 Project:
 Roy SWD 3
 Collection Date: 5/7/2021 6:48:00 AM

 Lab ID:
 2105387-036
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1900	60	mg/Kg	20	5/12/2021 5:22:31 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/12/2021 2:22:46 PM	59944
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/12/2021 2:22:46 PM	59944
Surr: DNOP	105	70-130	%Rec	1	5/12/2021 2:22:46 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/11/2021 9:20:26 PM	59919
Surr: BFB	91.7	70-130	%Rec	1	5/11/2021 9:20:26 PM	59919
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	5/11/2021 9:20:26 PM	59919
Toluene	ND	0.050	mg/Kg	1	5/11/2021 9:20:26 PM	59919
Ethylbenzene	ND	0.050	mg/Kg	1	5/11/2021 9:20:26 PM	59919
Xylenes, Total	ND	0.099	mg/Kg	1	5/11/2021 9:20:26 PM	59919
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	5/11/2021 9:20:26 PM	59919

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 36 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-W.1/15'

 Project:
 Roy SWD 3
 Collection Date: 5/7/2021 8:28:00 AM

 Lab ID:
 2105387-037
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	1400	60	mg/Kg	20	5/12/2021 5:34:56 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/12/2021 2:32:40 PM	59944
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 2:32:40 PM	59944
Surr: DNOP	102	70-130	%Rec	1	5/12/2021 2:32:40 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	ССМ
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 12:59:00 PM	59923
Surr: BFB	92.6	70-130	%Rec	1	5/11/2021 12:59:00 PM	59923
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst:	CCM
Benzene	ND	0.024	mg/Kg	1	5/11/2021 12:59:00 PM	59923
Toluene	ND	0.049	mg/Kg	1	5/11/2021 12:59:00 PM	59923
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 12:59:00 PM	59923
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2021 12:59:00 PM	59923
Surr: 4-Bromofluorobenzene	87.7	70-130	%Rec	1	5/11/2021 12:59:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 37 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-W.1/20'

 Project:
 Roy SWD 3
 Collection Date: 5/7/2021 8:55:00 AM

 Lab ID:
 2105387-038
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	600	60	mg/Kg	20	5/12/2021 5:47:20 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/12/2021 2:42:31 PM	59944
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 2:42:31 PM	59944
Surr: DNOP	97.1	70-130	%Rec	1	5/12/2021 2:42:31 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 1:59:00 PM	59923
Surr: BFB	91.5	70-130	%Rec	1	5/11/2021 1:59:00 PM	59923
EPA METHOD 8021B: VOLATILES					Analyst	ССМ
Benzene	ND	0.025	mg/Kg	1	5/11/2021 1:59:00 PM	59923
Toluene	ND	0.049	mg/Kg	1	5/11/2021 1:59:00 PM	59923
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 1:59:00 PM	59923
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2021 1:59:00 PM	59923
Surr: 4-Bromofluorobenzene	86.7	70-130	%Rec	1	5/11/2021 1:59:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 38 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SW/2'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 2:33:00 PM

 Lab ID:
 2105387-039
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1600	61	mg/Kg	20	5/12/2021 6:24:32 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/12/2021 2:52:24 PM	59944
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/12/2021 2:52:24 PM	59944
Surr: DNOP	76.7	70-130	%Rec	1	5/12/2021 2:52:24 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/11/2021 2:59:00 PM	59923
Surr: BFB	87.9	70-130	%Rec	1	5/11/2021 2:59:00 PM	59923
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	5/11/2021 2:59:00 PM	59923
Toluene	ND	0.047	mg/Kg	1	5/11/2021 2:59:00 PM	59923
Ethylbenzene	ND	0.047	mg/Kg	1	5/11/2021 2:59:00 PM	59923
Xylenes, Total	ND	0.095	mg/Kg	1	5/11/2021 2:59:00 PM	59923
Surr: 4-Bromofluorobenzene	84.8	70-130	%Rec	1	5/11/2021 2:59:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 39 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SW/7'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 2:48:00 PM

 Lab ID:
 2105387-040
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	3500	150	mg/Kg	50	5/13/2021 8:09:37 AM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/12/2021 3:02:15 PM	59944
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/12/2021 3:02:15 PM	59944
Surr: DNOP	104	70-130	%Rec	1	5/12/2021 3:02:15 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 3:19:00 PM	59923
Surr: BFB	88.0	70-130	%Rec	1	5/11/2021 3:19:00 PM	59923
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	5/11/2021 3:19:00 PM	59923
Toluene	ND	0.049	mg/Kg	1	5/11/2021 3:19:00 PM	59923
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 3:19:00 PM	59923
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2021 3:19:00 PM	59923
Surr: 4-Bromofluorobenzene	84.7	70-130	%Rec	1	5/11/2021 3:19:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 40 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SW/10'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 2:53:00 PM

 Lab ID:
 2105387-041
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	2300	150	mg/Kg	50	5/13/2021 8:22:02 AM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/12/2021 3:12:09 PM	59944
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/12/2021 3:12:09 PM	59944
Surr: DNOP	101	70-130	%Rec	1	5/12/2021 3:12:09 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/11/2021 3:38:00 PM	59923
Surr: BFB	91.1	70-130	%Rec	1	5/11/2021 3:38:00 PM	59923
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/11/2021 3:38:00 PM	59923
Toluene	ND	0.050	mg/Kg	1	5/11/2021 3:38:00 PM	59923
Ethylbenzene	ND	0.050	mg/Kg	1	5/11/2021 3:38:00 PM	59923
Xylenes, Total	ND	0.10	mg/Kg	1	5/11/2021 3:38:00 PM	59923
Surr: 4-Bromofluorobenzene	86.5	70-130	%Rec	1	5/11/2021 3:38:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 41 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SW.1/0'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 3:07:00 PM

 Lab ID:
 2105387-042
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	5/12/2021 7:01:45 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/12/2021 3:21:59 PM	59944
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/12/2021 3:21:59 PM	59944
Surr: DNOP	77.6	70-130	%Rec	1	5/12/2021 3:21:59 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2021 3:58:00 PM	59923
Surr: BFB	87.9	70-130	%Rec	1	5/11/2021 3:58:00 PM	59923
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	5/11/2021 3:58:00 PM	59923
Toluene	ND	0.048	mg/Kg	1	5/11/2021 3:58:00 PM	59923
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2021 3:58:00 PM	59923
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2021 3:58:00 PM	59923
Surr: 4-Bromofluorobenzene	84.1	70-130	%Rec	1	5/11/2021 3:58:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 42 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SW.1/3'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 3:11:00 PM

 Lab ID:
 2105387-043
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	370	60	mg/Kg	20	5/12/2021 7:14:09 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/12/2021 5:10:24 PM	59944
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 5:10:24 PM	59944
Surr: DNOP	120	70-130	%Rec	1	5/12/2021 5:10:24 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 4:18:00 PM	59923
Surr: BFB	93.5	70-130	%Rec	1	5/11/2021 4:18:00 PM	59923
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/11/2021 4:18:00 PM	59923
Toluene	ND	0.049	mg/Kg	1	5/11/2021 4:18:00 PM	59923
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 4:18:00 PM	59923
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2021 4:18:00 PM	59923
Surr: 4-Bromofluorobenzene	87.3	70-130	%Rec	1	5/11/2021 4:18:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 43 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SW.1/5'

 Project:
 Roy SWD 3
 Collection Date: 5/6/2021 3:15:00 PM

 Lab ID:
 2105387-044
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	230	59	mg/Kg	20	5/12/2021 7:26:33 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/12/2021 5:20:10 PM	59944
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 5:20:10 PM	59944
Surr: DNOP	128	70-130	%Rec	1	5/12/2021 5:20:10 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/11/2021 4:38:00 PM	59923
Surr: BFB	89.7	70-130	%Rec	1	5/11/2021 4:38:00 PM	59923
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/11/2021 4:38:00 PM	59923
Toluene	ND	0.050	mg/Kg	1	5/11/2021 4:38:00 PM	59923
Ethylbenzene	ND	0.050	mg/Kg	1	5/11/2021 4:38:00 PM	59923
Xylenes, Total	ND	0.10	mg/Kg	1	5/11/2021 4:38:00 PM	59923
Surr: 4-Bromofluorobenzene	85.4	70-130	%Rec	1	5/11/2021 4:38:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 44 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SW.1/10'

 Project:
 Roy SWD 3
 Collection Date: 5/7/2021 7:04:00 AM

 Lab ID:
 2105387-045
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	560	60	mg/Kg	20	5/12/2021 7:38:58 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/12/2021 5:29:56 PM	59944
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 5:29:56 PM	59944
Surr: DNOP	118	70-130	%Rec	1	5/12/2021 5:29:56 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2021 4:58:00 PM	59923
Surr: BFB	90.1	70-130	%Rec	1	5/11/2021 4:58:00 PM	59923
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	5/11/2021 4:58:00 PM	59923
Toluene	ND	0.048	mg/Kg	1	5/11/2021 4:58:00 PM	59923
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2021 4:58:00 PM	59923
Xylenes, Total	ND	0.096	mg/Kg	1	5/11/2021 4:58:00 PM	59923
Surr: 4-Bromofluorobenzene	85.9	70-130	%Rec	1	5/11/2021 4:58:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 45 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SW.1/15'

 Project:
 Roy SWD 3
 Collection Date: 5/7/2021 7:15:00 AM

 Lab ID:
 2105387-046
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	240	60	mg/Kg	20	5/12/2021 7:51:23 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/12/2021 5:39:45 PM	59944
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 5:39:45 PM	59944
Surr: DNOP	100	70-130	%Rec	1	5/12/2021 5:39:45 PM	59944
EPA METHOD 8015D: GASOLINE RANGE					Analyst	ССМ
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/11/2021 5:18:00 PM	59923
Surr: BFB	94.8	70-130	%Rec	1	5/11/2021 5:18:00 PM	59923
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst:	CCM
Benzene	ND	0.023	mg/Kg	1	5/11/2021 5:18:00 PM	59923
Toluene	ND	0.047	mg/Kg	1	5/11/2021 5:18:00 PM	59923
Ethylbenzene	ND	0.047	mg/Kg	1	5/11/2021 5:18:00 PM	59923
Xylenes, Total	ND	0.093	mg/Kg	1	5/11/2021 5:18:00 PM	59923
Surr: 4-Bromofluorobenzene	89.1	70-130	%Rec	1	5/11/2021 5:18:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 46 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SW.1/20'

 Project:
 Roy SWD 3
 Collection Date: 5/7/2021 7:58:00 AM

 Lab ID:
 2105387-047
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	770	60	mg/Kg	20	5/12/2021 8:03:47 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/12/2021 6:49:08 PM	59953
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/12/2021 6:49:08 PM	59953
Surr: DNOP	90.0	70-130	%Rec	1	5/12/2021 6:49:08 PM	59953
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/11/2021 6:37:00 PM	59923
Surr: BFB	88.7	70-130	%Rec	1	5/11/2021 6:37:00 PM	59923
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	5/11/2021 6:37:00 PM	59923
Toluene	ND	0.047	mg/Kg	1	5/11/2021 6:37:00 PM	59923
Ethylbenzene	ND	0.047	mg/Kg	1	5/11/2021 6:37:00 PM	59923
Xylenes, Total	ND	0.094	mg/Kg	1	5/11/2021 6:37:00 PM	59923
Surr: 4-Bromofluorobenzene	84.9	70-130	%Rec	1	5/11/2021 6:37:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 47 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-W.2/1'

 Project:
 Roy SWD 3
 Collection Date: 5/7/2021 9:35:00 AM

 Lab ID:
 2105387-048
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	5/12/2021 8:16:11 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/12/2021 7:18:45 PM	59953
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/12/2021 7:18:45 PM	59953
Surr: DNOP	111	70-130	%Rec	1	5/12/2021 7:18:45 PM	59953
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 6:57:00 PM	59923
Surr: BFB	90.4	70-130	%Rec	1	5/11/2021 6:57:00 PM	59923
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/11/2021 6:57:00 PM	59923
Toluene	ND	0.049	mg/Kg	1	5/11/2021 6:57:00 PM	59923
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 6:57:00 PM	59923
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2021 6:57:00 PM	59923
Surr: 4-Bromofluorobenzene	86.6	70-130	%Rec	1	5/11/2021 6:57:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 48 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-W.2/3'

 Project:
 Roy SWD 3
 Collection Date: 5/7/2021 9:37:00 AM

 Lab ID:
 2105387-049
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	5/12/2021 8:53:24 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/12/2021 7:28:32 PM	59953
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/12/2021 7:28:32 PM	59953
Surr: DNOP	97.9	70-130	%Rec	1	5/12/2021 7:28:32 PM	59953
EPA METHOD 8015D: GASOLINE RANGE					Analyst	ССМ
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2021 7:17:00 PM	59923
Surr: BFB	92.3	70-130	%Rec	1	5/11/2021 7:17:00 PM	59923
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	5/11/2021 7:17:00 PM	59923
Toluene	ND	0.048	mg/Kg	1	5/11/2021 7:17:00 PM	59923
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2021 7:17:00 PM	59923
Xylenes, Total	ND	0.096	mg/Kg	1	5/11/2021 7:17:00 PM	59923
Surr: 4-Bromofluorobenzene	89.8	70-130	%Rec	1	5/11/2021 7:17:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 49 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-W.2/5'

 Project:
 Roy SWD 3
 Collection Date: 5/7/2021 9:40:00 AM

 Lab ID:
 2105387-050
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	100	60	mg/Kg	20	5/12/2021 9:05:48 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	5/12/2021 7:38:21 PM	59953
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/12/2021 7:38:21 PM	59953
Surr: DNOP	97.0	70-130	%Rec	1	5/12/2021 7:38:21 PM	59953
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/11/2021 7:37:00 PM	59923
Surr: BFB	92.4	70-130	%Rec	1	5/11/2021 7:37:00 PM	59923
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/11/2021 7:37:00 PM	59923
Toluene	ND	0.050	mg/Kg	1	5/11/2021 7:37:00 PM	59923
Ethylbenzene	ND	0.050	mg/Kg	1	5/11/2021 7:37:00 PM	59923
Xylenes, Total	ND	0.10	mg/Kg	1	5/11/2021 7:37:00 PM	59923
Surr: 4-Bromofluorobenzene	87.2	70-130	%Rec	1	5/11/2021 7:37:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 50 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SW.2/1'

 Project:
 Roy SWD 3
 Collection Date: 5/7/2021 9:44:00 AM

 Lab ID:
 2105387-051
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	59	mg/Kg	20	5/12/2021 9:43:01 PM	59969
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/12/2021 7:48:10 PM	59953
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/12/2021 7:48:10 PM	59953
Surr: DNOP	89.4	70-130	%Rec	1	5/12/2021 7:48:10 PM	59953
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 7:57:00 PM	59923
Surr: BFB	89.8	70-130	%Rec	1	5/11/2021 7:57:00 PM	59923
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	5/11/2021 7:57:00 PM	59923
Toluene	ND	0.049	mg/Kg	1	5/11/2021 7:57:00 PM	59923
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 7:57:00 PM	59923
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2021 7:57:00 PM	59923
Surr: 4-Bromofluorobenzene	87.7	70-130	%Rec	1	5/11/2021 7:57:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 51 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SW.2/3'

 Project:
 Roy SWD 3
 Collection Date: 5/7/2021 9:47:00 AM

 Lab ID:
 2105387-052
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	770	60	mg/Kg	20	5/13/2021 1:13:56 AM	59993
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	26	9.5	mg/Kg	1	5/13/2021 12:07:36 AM	59953
Motor Oil Range Organics (MRO)	66	47	mg/Kg	1	5/13/2021 12:07:36 AM	59953
Surr: DNOP	124	70-130	%Rec	1	5/13/2021 12:07:36 AM	59953
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2021 8:17:00 PM	59923
Surr: BFB	91.5	70-130	%Rec	1	5/11/2021 8:17:00 PM	59923
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	5/11/2021 8:17:00 PM	59923
Toluene	ND	0.049	mg/Kg	1	5/11/2021 8:17:00 PM	59923
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2021 8:17:00 PM	59923
Xylenes, Total	ND	0.099	mg/Kg	1	5/11/2021 8:17:00 PM	59923
Surr: 4-Bromofluorobenzene	87.3	70-130	%Rec	1	5/11/2021 8:17:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 52 of 61

Date Reported: 5/17/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SP-SW.2/5'

 Project:
 Roy SWD 3
 Collection Date: 5/7/2021 9:50:00 AM

 Lab ID:
 2105387-053
 Matrix: SOIL
 Received Date: 5/7/2021 11:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1500	60	mg/Kg	20	5/13/2021 1:26:21 AM	59993
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/12/2021 7:57:58 PM	59953
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/12/2021 7:57:58 PM	59953
Surr: DNOP	120	70-130	%Rec	1	5/12/2021 7:57:58 PM	59953
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2021 8:37:00 PM	59923
Surr: BFB	91.7	70-130	%Rec	1	5/11/2021 8:37:00 PM	59923
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	5/11/2021 8:37:00 PM	59923
Toluene	ND	0.048	mg/Kg	1	5/11/2021 8:37:00 PM	59923
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2021 8:37:00 PM	59923
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2021 8:37:00 PM	59923
Surr: 4-Bromofluorobenzene	89.9	70-130	%Rec	1	5/11/2021 8:37:00 PM	59923

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 53 of 61

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2105387** 

17-May-21

Client: EOG

**Project:** Roy SWD 3

Sample ID: MB-59952 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **59952** RunNo: **77313** 

Prep Date: 5/11/2021 Analysis Date: 5/11/2021 SeqNo: 2743141 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-59952 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59952 RunNo: 77313

Prep Date: 5/11/2021 Analysis Date: 5/11/2021 SeqNo: 2743142 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.1 90 110

Sample ID: MB-59962 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59962 RunNo: 77319

Prep Date: 5/12/2021 Analysis Date: 5/12/2021 SeqNo: 2744353 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-59962 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59962 RunNo: 77319

Prep Date: 5/12/2021 Analysis Date: 5/12/2021 SeqNo: 2744354 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.3 90 110

Sample ID: MB-59969 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59969 RunNo: 77319

Prep Date: 5/12/2021 Analysis Date: 5/12/2021 SeqNo: 2744389 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-59969 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59969 RunNo: 77319

Prep Date: 5/12/2021 Analysis Date: 5/12/2021 SeqNo: 2744390 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.6 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 54 of 61

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2105387** 

17-May-21

Client: EOG

**Project:** Roy SWD 3

Sample ID: MB-59993 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59993 RunNo: 77319

Prep Date: 5/12/2021 Analysis Date: 5/12/2021 SeqNo: 2744422 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-59993 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59993 RunNo: 77319

Prep Date: 5/12/2021 Analysis Date: 5/12/2021 SeqNo: 2744423 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.3 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 55 of 61

### Hall Environmental Analysis Laboratory, Inc.

ND

ND

11

10

50

10.00

SampType: MBLK

WO#: **2105387** *17-May-21* 

Client: EOG

Sample ID: MB-59932

Diesel Range Organics (DRO)

Surr: DNOP

Motor Oil Range Organics (MRO)

**Project:** Roy SWD 3

Client ID: PBS	Batch ID	59932	RunNo: <b>77332</b>									
Prep Date: 5/11/2021	Analysis Date	5/12/2021	Sec	No: <b>2744544</b>	Units: mg/Kg							
Analyte	Result P	QL SPK value	SPK Ref Val %	6REC LowLimit	HighLimit %RPD	RPDLimit	Qual					
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO)	ND	50										
Surr: DNOP	10	10.00		104 70	130							
Sample ID: MB-59944	SampType	: MBLK	TestCo	ode: EPA Method	8015M/D: Diesel Rang	ge Organics						
Client ID: PBS	Batch ID	59944	Rur	No: <b>77332</b>								
Prep Date: <b>5/11/2021</b>	Analysis Date	5/12/2021	Sec	No: <b>2744545</b>	Units: mg/Kg							
Analyte	Result P	QL SPK value	SPK Ref Val %	6REC LowLimit	HighLimit %RPD	RPDLimit	Qual					
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO)	ND	50										
Surr: DNOP	11	10.00	112 70 130									
Sample ID: <b>MB-59953</b>	SampType	: MBLK	TestCo	ge Organics								
Client ID: PBS	Batch ID	59953	Run	No: <b>77332</b>								
Prep Date: <b>5/11/2021</b>	Analysis Date	5/12/2021	Sec	No: <b>2744546</b>	Units: mg/Kg							
Analyte	Result P	QL SPK value	SPK Ref Val %	6REC LowLimit	HighLimit %RPD	RPDLimit	Qual					

TestCode: EPA Method 8015M/D: Diesel Range Organics

70

111

130

Sample ID: LCS-59944	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: <b>59</b> 9	944	R	RunNo: <b>7</b>	7332				
Prep Date: 5/11/2021	Analysis D	ate: <b>5/</b>	12/2021	S	SeqNo: 2	744571	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	119	68.9	141			
Surr: DNOP	5.7		5.000		114	70	130			

Sample ID: LCS-59953	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	1D: <b>59</b>	953	R	RunNo: <b>7</b>	7332				
Prep Date: 5/11/2021	Analysis D	ate: <b>5/</b>	12/2021	S	SeqNo: 2	744572	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	68.9	141			
Surr: DNOP	4.9		5.000		98.2	70	130			

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 56 of 61

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2105387** 

17-May-21

Client: EOG

Surr: DNOP

**Project:** Roy SWD 3

Sample ID: MB-59906 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 59906 RunNo: 77349

Prep Date: 5/10/2021 Analysis Date: 5/11/2021 SeqNo: 2744706 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 9.3 10.00 93.3 70 130

Sample ID: LCS-59906 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 59906 RunNo: 77349

4.7

Prep Date: 5/10/2021 Analysis Date: 5/11/2021 SeqNo: 2744707 Units: mg/Kg

5.000

SPK value SPK Ref Val %REC %RPD Analyte PQL LowLimit HighLimit **RPDLimit** Qual Diesel Range Organics (DRO) 49 10 50.00 97.6 68.9 141

94.9

70

130

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 57 of 61

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2105387** 

17-May-21

Client: EOG

**Project:** Roy SWD 3

Sample ID: Ics-59896	SampType: <b>LCS</b>	TestCode: EPA Method	8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 59896	RunNo: 77292							
Prep Date: 5/8/2021	Analysis Date: 5/10/2021	SeqNo: <b>2741781</b>	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 78.6	131						
Surr: BFB	1000 1000	104 70	130						
Sample ID: <b>mb-59896</b>	SampType: <b>MBLK</b>	TestCode: EPA Method	8015D: Gasoline Range						
Client ID: PBS	Batch ID: 59896	RunNo: 77292							
Prep Date: 5/8/2021	Analysis Date: 5/10/2021	SeqNo: <b>2741782</b>	Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual						
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	860 1000	85.8 70	130						
Sample ID: LCS-59923	SampType: <b>LCS</b>	TestCode: EPA Method	8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 59923	RunNo: 77299	-						
Prep Date: 5/10/2021	Analysis Date: 5/11/2021	SeqNo: <b>2742336</b>	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 97.4 78.6	131						
Surr: BFB	1000 1000	101 70	130						
Sample ID: <b>MB-59923</b>	SampType: <b>MBLK</b>	TestCode: EPA Method	8015D: Gasoline Range						
Client ID: PBS	Batch ID: 59923	RunNo: 77299							
Prep Date: 5/10/2021	Analysis Date: 5/11/2021	SeqNo: <b>2742337</b>	Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual						
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	900 1000	89.6 70	130						
Sample ID: <b>mb-59919</b>	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range						
Client ID: PBS	Batch ID: 59919	RunNo: 77310							
Prep Date: 5/10/2021	Analysis Date: 5/11/2021	SeqNo: <b>2742892</b>	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	00 94.2 70 130							
Sample ID: Ics-59919	SampType: <b>LCS</b>	TestCode: EPA Method	8015D: Gasoline Range						

#### Qualifiers:

Analyte

Client ID: LCSS

Prep Date: 5/10/2021

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Batch ID: 59919

Analysis Date: 5/11/2021

Result

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

RunNo: **77310** SeqNo: **2742893** 

Units: mg/Kg

HighLimit

%RPD

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

PQL SPK value SPK Ref Val %REC LowLimit

Page 58 of 61

**RPDLimit** 

Qual

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2105387** *17-May-21* 

Client: EOG

**Project:** Roy SWD 3

Sample ID: Ics-59919 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 59919 RunNo: 77310

Prep Date: 5/10/2021 Analysis Date: 5/11/2021 SeqNo: 2742893 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 24
 5.0
 25.00
 0
 96.8
 78.6
 131

 Surr: BFB
 1000
 1000
 100
 70
 130

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 59 of 61

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2105387** 

17-May-21

Client: EOG

**Project:** Roy SWD 3

Sample ID: LCS-59896	SampT	ype: <b>LC</b>	S	TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batch	n ID: <b>59</b> 8	396	F	RunNo: <b>7</b>	7292							
Prep Date: 5/8/2021	Analysis D	ate: <b>5/</b>	10/2021	8	SeqNo: 2	741808	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	92.1	80	120						
Toluene	0.90	0.050	1.000	0	89.9	80	120						
Ethylbenzene			1.000	0	0 92.9 80		120						
Xylenes, Total	2.7			0 91.1 80		120							
Surr: 4-Bromofluorobenzene	0.84 1.000				84.0	70	130						

Sample ID: mb-59896	Samp1	Гуре: <b>МЕ</b>	BLK	Tes	tCode: <b>El</b>	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	h ID: <b>59</b>	896	F	RunNo: <b>7</b>	7292				
Prep Date: 5/8/2021	Analysis [	Date: <b>5/</b>	10/2021	S	SeqNo: 2	741809	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		83.9	70	130			

Sample ID: LCS-59923	SampT	ype: <b>LC</b>	S	Tes	tCode: <b>El</b>	iles				
Client ID: LCSS	Batch	n ID: <b>59</b> 9	923	F	RunNo: <b>7</b>	7299				
Prep Date: 5/10/2021	Analysis D	Date: <b>5/</b>	11/2021	S	SeqNo: 2	742340	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.1	80	120			
Toluene	0.92	0.050	1.000	0	92.3	80	120			
Ethylbenzene	0.95 0.050 1.000		0	95.1 80		120				
Xylenes, Total	2.8	0.10	3.000	0	93.5	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	70	130			

Sample ID: <b>MB-59923</b>	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: <b>59</b> 9	923	F	RunNo: <b>7</b>	7299				
Prep Date: 5/10/2021	Analysis D	oate: <b>5/</b>	11/2021	S	SeqNo: 2	742341	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.2	70	130			

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 60 of 61

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2105387** 

17-May-21

Client: EOG

**Project:** Roy SWD 3

Sample ID: mb-59919 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 59919 RunNo: 77310

Prep Date: 5/10/2021 Analysis Date: 5/11/2021 SeqNo: 2742922 Units: mg/Kg

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

Benzene ND 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.1 1.000 106 70 130

Sample ID: LCS-59919 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: **LCSS** Batch ID: **59919** RunNo: **77310** 

Prep Date: 5/10/2021 Analysis Date: 5/11/2021 SeqNo: 2742923 Units: mg/Kg

Prep Date. 3/10/2021	Allalysis L	Jale. <b>3/</b>	1 1/202 1		begivo. Z	142923	Office. Ing/h	.g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.4	80	120			
Toluene	1.0	0.050	1.000	0	99.6	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 61 of 61



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

### Sample Log-In Check List

Website: clients.hallenvironmental.com EOG Client Name: Work Order Number: 2105387 RcptNo: 1 Received By: Andy Freeman 5/7/2021 11:20:00 AM Completed By: Isaiah Ortiz 5/8/2021 9:30:58 AM Reviewed By: 05/08/2021 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 🗌 Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 NA  $\square$ 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? No □ ~ Yes 8. Was preservative added to bottles? No 🔽 Yes 🗌 NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🔲 NA 🔽 Yes  $\square$ 10. Were any sample containers received broken? No 🔽 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗹 No 🗌 for pH; (Note discrepancies on chain of custody) er >12 unless noted) 12. Are matrices correctly identified on Chain of Custody? Adjusted? Yes 🔽 No 🗌 13. Is it clear what analyses were requested? Yes 🗸 No 14. Were all holding times able to be met? Checked by Yes 🗹 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 NA 🔽 No 🗔 Person Notified: Date By Whom: Via: 🔲 eMail 🔲 Phone 🔲 Fax 🔲 In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp ⁰C Condition Seal Intact Seal No Seal Date: 1 1.2 Good Not Present

	Chain	-of-Cu	Chain-of-Custody Record	Turn-Around Time	Time	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\								° 20 /	
Client	: EOG-An	Client: EOG-Artesia / Ranger Env.	nger Env.	⊠ Standard	Rush □	ν, V				HALL	HALL ENVIRONMENTAL ANALYSTS LABODATODY	AON A	JEN		eived
				Project Name	Roy	£#				ed www	www.hallenvironmental.com	tal com	5	2	
Mailing	Address:	EOG - 10	Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210					4	01 Ha	- 4901 Hawkins NE	Albuquerane NM 87109	ie NM 87	90		CD:
Range	r: PO Box	201179, A	Ranger: PO Box 201179, Austin TX 78720	Project #: 5375	5			! ⊢	Tel. 505	505-345-3975	Fax 505	505-345-4107	3		10/1
Phone	Phone #: 521-335-1785	35-1785								A		hest			4/20
email	or Fax#: \	Will@Ran	email or Fax#. Will@RangerEnv.com	Project Manag	ger: W. Kierdorf	rdorf		9		_					21
QA/QC	QA/QC Package:							MR							1:12
■ Sta	■ Standard		☐ Level 4 (Full Validation)					/ 03	-						:17
Accred	Accreditation:	□ Az Co	□ Az Compliance	7	Ly.	+ R MARTEN		ND \							PM
■ NELAC	PC	□ Other		On Ice	ĭ⊈ Yes	. □ No		O5							
■ ED	EDD (Type)	Excel		# of Coolers:	$I_{i}$										
				Cooler Temp(mouding cF):	28.7	3-9-1-60-8									
, (				Container	Preservative	e HEAL No	YEMEST MADES	3) X∃T	pinoln				***		
s/6/vi	020x	Matrix	Sp.i/a	lype and #	i ype	750 E	5,046								
2.5	- -		2, /.	210.2	}		3	+	1				1	+	1
	4480		sp1/4'	,	_		200								
	6903		SF- <b>1</b> /7				003								
	090£		56-1/ع.				700								
	სისი		Sb-1/اڤ,				7005						_		
	07 W		\$¢~€/o				900								
<b></b>	55,00		26-E/3,				5								
	8460		.9/2-ds		<u> </u>		800								
	osko		sp-e/1,				600								
	5003		sp6.1/oʻ				S								
	500\		sp-E.1/21	-			011								<u></u>
/	boot	=	\$6-6.1(\$	}	<del>-</del>		210	<del>-</del> ,	-1						
Date:	Time:	+	 	Received by:	, Via:	Date /		emark	s: Bill t	Remarks: Bill to EOG Artesia	sia	<u> </u>		_	
5/11/21	11:10	-	Robert Mortin Worthfulo.			j	11.20								P
Date:	Time:	Relinquished by	ed by:	Received by:	Via:	Date	Time								age
				120	Collin	12/8/5	0845								118
	If necessary.	r, samples sub	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	ontracted to other acc	credited laborato	ries. This serves as I	notice of this p	ossibility.	Any sub-c	ontracted data	vill be clearly nota	ited on the anal	llytical repo	ť	of 168

Project Name: Ray Suo # 3   4901 Haw	Chain-of-Custody Record Client: EOG-Artesia / Ranger Env.	Time:		HALL ENVIRONMENTAL	, 1
Project #. 5375   Project Wanager W. Kerdorf   Project W. Ke		Rust		ANALYSIS LABORATORY	<b>.</b>
Project #: 5375   Tel. 505-345-3975   Fax 506-3444107     Analysis Request	Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210			,	CD:
Project Manager: W. Kerdorf   Reduct Manage	Ranger: PO Box 201179, Austin TX 78720	Project #: 5375			10/1
Project Manager: W. Kierdorf   Sampler: Lot. LECTOSTER & E. LANGTEN     Sampler: Lot. LECTOSTER & E. LANGTEN     Sampler: Lot. LECTOSTER & E. LANGTEN     For Cooler Tempinsoning ES: T. 7; ESL. F. F. 7; ESL.		T		Analysis	4/20
Sampler   L. LECEDORS	email or Fax#: Will@RangerEnv.com	Project Manager: W. Kierd	orf	(0	21 1
Sampler L. L. L.C.C.Drock + R. L. Laft For Onlice				AM .	:12:
Sampler: W. LECROPORT & R. And L. P. On Total Container  # of Cooler Tempuratus St. 11 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 2 01 1 1 1	□ Level 4 (Full Validation)		man in graph who is a con-	/ OX	171
# of Coolers.   # of Coolers.		? 7 \	ימשער במ אס		PM
Cooler Temporatary of the cooler Temporatary of the cooler Temporatary of the cooler Temporatary   The cooler Temporata		ers;		ЯĐ)	
Type and # Type   Container   Preservative   Container   Preservative   Container   Type   Container   Container		Cooler Temp(mouning CF):	3-01-12-	IPD(	
\( \text{V42.5RZ} \) \( \text{TCE} \) \( \text{O13} \times \times \times \) \( \text{O14} \)   \( \text{O15} \)   \( \text{O15} \)   \( \text{O17} \)   \( O1	Sample Name		HEAL No.	`08:H <b>q</b> T	
OVS	SP-4/0.		510	×	
OIS	26-W/1,		710		
Old	;5/~·dS		SIO.		
Ot   Ot   Ot   Ot   Ot   Ot   Ot   Ot	SPN. 1/11		910		
O18	Sp-W11/8;		C10		
O19	,0/5-25		8 10		
Cold	56-5/3;		016		
Color   Colo	, <i>s/s-</i> ds		020		
Color   Colo	Sp5.1/a'		170		
Colored by: Via: Date Time   Remarks: Bill to EOG Artesia   Received by Via: Date Time   Received by	58-5.1/8"		220		
Received by: Via: Date Time Remarks: Bill to EOG Artesia  Received by Via: Date Time Received by Via: Date Time	36-5,1/10		\$70		
Received by: Via: Date Time Remarks: Bill to EOG Artesia  S $/7/1 / 1/2 \circ$ Received by Via: Date Time	SP-5.3/2'	-1	420		
Received by Via: Date Time	LIMITE	1/2	Date Time 5/7/ 1/20	Remarks: Bill to EOG Artesia	
_	, , , , , , , , , , , , , , , , , , ,		Date Time		Page 119

~	eived }		CD:	10/1	4/20	21	1:12:	:17	PM		<del></del>		<u> </u>			<u> </u>							┢			Po	age 120	10,
	HALL ENVIRONMENTAL ANAI YSTS I ABORATORY				:																							
į	1EI		109			-					-	·					-	<u> </u>	-									
		E E	M 87	410																								
	<b>₽</b> .₹	ıtal.c	e N	5-345	senb								1															
j	<u> </u>	ja e	uera	Fax 505-345-4107	s Re				·····		•												_	_				
i	Z	ivic	Albuc	Е	Analysis Request								+				_						<del> </del>	<u> </u>	<u>ā</u>			
	HALL ENVIRONMEN ANAI YSTS I ABORAT	www.hallenvironmental.com	4901 Hawkins NE - Albuquergue, NM 87109	375	An							N.		<u> </u>	**.										Remarks: Bill to EOG Artesia			
	Z Z	<b>*</b>	rins N	505-345-3975																					E0G			
		_	Hawk	505-3			_																		to 			
			1901	Tel S		(0	NIAI.	<u> </u>				DH:H97	+						-+·-					7	ks. B			
			7				- IN D	/ 00				) X3T8	· ×						7						emar			
												i na ka	\	. 0	<b>~</b>	~				~1	•			-		$\exists$		$\frac{1}{2}$
												56 \_	625	076	720	820	520	įχ	031	120	(B.)	750	035	036	ime	31	Time	
									נבת		27	HEAL NO.								)		)				72		
									R. MARTEN		7.0=2	≥ٍ∓													Date	101	Date	
	닿	#3				rdorf			÷ R.		<u>  ~</u>		<u> </u>			_							_					
	- Ru	5:20				W. Kierdorf			7		(F):	Preservative Type	1,1			•												
Time:	LJ	Roy		10		iger: V			KIEROOP!		clading	Prese Type	ICE			<b></b> -			┞╼╂					-	, Zia:	7	Via:	
T pun	lard	Project Name: Roy Swo #3		5375		anag			2003	) SIE	Cooler Temp(including 0F);	#	JAN				:								ر سا	M	<u>\</u>	
Turn-Around	Stanc	ect N		Project #: 53		Project Mana			Sampler: ৮. On Ice	Cook	er Te	Container Type and #	1 K 402 JAN						-+					-+	Received by		Received by:	
Tur	×	Proj		Proj		Proj	:		Sample On Ice	# of	ပ္ပိ	T. Son.	<b>∀</b> ~												Recei	130	Recei	
			5					(lo				Ç.													,	in the		
ord			И, 882					☐ Level 4 (Full Validation)				Sample Name													3	Paken I Mand		
Sec			ia NN					3				Sa	1.5	1/3	,5/	, 9/	. 8/	, 5,	, O	ŗ,		<u> </u>	/دَ ِ	101/	1	7.		
× ×			Arte	78720		ЩO		14 (F	<b>a</b> .			ple	SP-5.3/41	26-5.4/3.	.5/45-05	5P-5E/0	SP-SE/3	SP-SE/5	5p-w/o	SP-w/3:	5P-w/s	SP-W.1,	SP-11,	Sp.W. 1/101				
po	Env		th St,	Σ		=nv.c		Level	iance			an E	Sp.	dS	<i>d</i> 5	35	SP	δ\$	Sρ	SP	SP.	SP	- 45			10.01		
ust	anger		15 S 4	Austii		ngert			ompl																hed by	11	hed by	
Chain-of-Custody Record	a/Ré		G - 10	179	1785	@Ra			☐ Az Compliance	Excel		Matrix	770						$ $						Relinquished by	Kobert Martin	Relinquished by:	
0-L	Artesi		s: E0	x 201	-335-	Will	<u>:</u>			╽╨	<b> </b>		20								,				2		Re	$\frac{1}{2}$
hail	<del>/-</del> 90		ddres	SO Bo	521	Fax#	ackag	lard	ation:	Type		Time	1330	1358	1401	1415	(4ગ	(ተ <sub>ያ</sub> ን	SILÒ	१५८६	£05)	5051	16 3S	0548	Time:	11:10	Time:	
ರ	Client: EOG-Artesia / Ranger Env		Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Ranger: PO Box 201179, Austin TX 78720	Phone #: 521-335-1785	email or Fax#: Will@RangerEnv.com	QA/QC Package:	Standard	Accreditation:	EDD (Type)													ļ					
	Ü		Mai	Ran	Phc	eü	δ		Acc			Date	14/9/5				· · · · · ·		+				-1	12/1/5	Date:	12/1/5	Date:	

_	Chain	1-of-C	Chain-of-Custody Record	Turn-Around Time.	Time:	Andrew Company				S to h				4 of 5	Reco
Client	: EOG-Ar	Client: EOG-Artesia / Ranger Env	nger Env.	  X∫ Standard	□ Rush		L		I A	HALL ENVIKONMENTAL ANALYSTS LABORATORY	VAIK TS L	ABO	MEN RAJ		eived }
				Project Name	Ray Sur #3				×	www.hallenvironmental.com	ronment	al.com			_
Mailin	y Address:	: EOG - 10	Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210					4901	4901 Hawkins NE	1	Albuquerane, NM 87109	9. NM 87	109		CD:
Range	r: PO Box	201179, 7	Ranger: PO Box 201179, Austin TX 78720	Project #: 537	'5		,	Te.	Tel. 505-345-3975	10	Fax 505-3	505-345-4107			10/1
Phone #:	» #: 521-3	521-335-1785								Analy		lest			4/20
email	or Fax#:	Will@Rar	email or Fax#: Will@RangerEnv.com	Project Mana	Project Manager: W. Kierdorf	lorf		0							21
aAVaC	QA/QC Package:	;;						MR						<u>.</u>	1:12
■ Sta	Standard		☐ Level 4 (Full Validation)					/ 0							:17
Accre	Accreditation:	□ Az Cc	□ Az Compliance	Sampler:ಒ 🕰	ERDORF FR.	magsen									PM_
빌	NELAC	□ Other		On Ice:	IX.Yes	⊟No	erse c								
■ ED	EDD (Type)	Excel		# of Coolers;	100		()								
				Cooler Temp(including.cn).	including CF):	3-0.7-7.2	201								
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	L SS SUL	8) X∃T8	PH:801 		**		,,,			
17/1/5			SP-W.i/is'	1 x 402 5AR	Lcé	637	1 ×								
-1	╆		Sp. W. 1/20			820									
14/9/5	1433		5P-5W/2			039									
	├		, L/ms-d5			01 <sub>2</sub> 0									
	1453		5p~5w/101			170									
	Co21		\$p-sw.1/01			770									
<u></u>	156		SP-5W-1/3'			270									
-1	\$1.53		.s/1"MS-d5			など									
12/5/21	#07.00 I		\$P-5W.1/10"			55V									
	SILO		\$p-5w.i/s			950									
	6560		Sp-54. 1/20			740									
-4	0935		8 -m.3/i	1	(	940	-1	<del>-</del> 4 -						_	
Sate: 5/7/2,		Relinquished by:	ied by:	Received by:	Via:	-	Rema	ırks: E	Remarks: Bill to EOG Artesia	3 Artesia					
		ho oc.	poser 1 1 ant in the Maker		· / I	12									P
)ate:	Time:	Relinquished by:	led by:	Received by:	Via:	Date Time									age 121
	lf necessar,	y, samples sul	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	ontracted to other ac	credited laboratorie	ss. This serves as notice of thi	s possibil	ty. Any	ub-contracte	d ɗata will be	clearly notate	ed on the an	alytical re	port.	of 168

	Shain	J-o-u	Chain-of-Custody Record	Turn-Around Time:	Time:								(				Rece
Client	EOG-AI	Client: EOG-Artesia / Ranger Env	inger Env.	★ Standard	□ Rush	ų				Ì	     	Z Z Z	HALL ENVIKONMENTAL ANAI YSTS I ABODATODV		Z È		eived
i				Project Name:	Pey	13				<b>S</b>	alled w		www hallenvironmental com	2 }		2	
Vlailing	Address	: EOG - 10	Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210					4	904 H	4901 Hawkins NF	,		Albuquerque NM 87100	A 8710	a		CD:
Range	r: PO Box	. 201179, ,	Ranger: PO Box 201179, Austin TX 78720	Project #: 537	5				Tel. 50	Tel. 505-345-3975		Fax	Eax 505-345-4107	4107	D		10/1
Phone	#: 521-3	Phone #: 521-335-1785									An	alysis F	Analysis Request				4/21
email (	or Fax#:	Will@Rai	email or Fax#: Will@RangerEnv.com	Project Manag	ger. W. Kierdorf	dorf			10							H	<b>)21</b> .
AVQC	2A/QC Package:	2.5					,										1:12
Sta	Standard		☐ Level 4 (Full Validation)					70			<del></del>		<u> </u>				:17
Accrec ■ NEI	Accreditation:	☐ Az Co☐	mpliance	Sampler: W. McCake.D+A. On Ice: TKYes	seasift Inyes	- raetz/				··-				<del></del>	<u>.</u>		PM _
■ ED	EDD (Type)	Excel		# of Coolers:		) 					-				_		
				Cooler Temp(including CF)	ncluding CF). $/$ ,	3-015/2	ÿ					-					
Jate	Ë E	Matrix	Sample Name	Container Type and #	Preservative Tyne	,	HEAL No.	3) X3T >08:H9	hloride					·			
×*/€/;			Sp-16.4/3.	1 x farzan	27. 17.6°					+-		-				_	1_
	० १५%	SOFL	Sp. W. 3/5				050	-	-							+	
	ስትራህ		SP-SW.8/1		<u></u>		100			<u> </u>		<u> </u>				1	
	0347		\$p-su.a/3'				1250				-		<u> </u>				
<u>-ì</u>	વવૈશ		SP-SW.2/s	)	-).		653		-,			<del>                                     </del>		<u>                                     </u>			
						-										╁╌	
					į												
							•										
						,											
					•												
late: <i>1271</i> 21	Time: 11; 1 0	Relinquished by:	. Shulled.	Received by:	V Via:	Date	Time   F	Remark	(s: Bill	to EO(	Remarks: Bill to EOG Artesia	m m					I
ate:	Time:	Relinquished by:		Received by:	Via:	7 Date	Time										Page 122
	lf necessary	r, samples suk	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	ontracted to other ac	redited laboratori	ies. This serves as	notice of this p	ossibility.	Any sub	-contracte	d data will	be clearly	notated on	the analytic	cal report		of 168



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

August 18, 2021

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

RE: Roy SWD 3 OrderNo.: 2108365

#### Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 32 sample(s) on 8/7/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-1/0'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 7:35:00 AM

 Lab ID:
 2108365-001
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	8/12/2021 12:08:43 AM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2021 11:10:08 PM	61835
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/10/2021 11:10:08 PM	61835
Surr: DNOP	101	70-130	%Rec	1	8/10/2021 11:10:08 PM	61835
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/9/2021 8:48:06 PM	61829
Surr: BFB	105	70-130	%Rec	1	8/9/2021 8:48:06 PM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	8/9/2021 8:48:06 PM	61829
Toluene	ND	0.049	mg/Kg	1	8/9/2021 8:48:06 PM	61829
Ethylbenzene	ND	0.049	mg/Kg	1	8/9/2021 8:48:06 PM	61829
Xylenes, Total	ND	0.098	mg/Kg	1	8/9/2021 8:48:06 PM	61829
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/9/2021 8:48:06 PM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-1/8'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 7:55:00 AM

 Lab ID:
 2108365-002
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	620	60	mg/Kg	20	8/12/2021 12:21:07 AM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/10/2021 11:34:14 PM	61835
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/10/2021 11:34:14 PM	61835
Surr: DNOP	95.7	70-130	%Rec	1	8/10/2021 11:34:14 PM	61835
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/9/2021 9:11:51 PM	61829
Surr: BFB	104	70-130	%Rec	1	8/9/2021 9:11:51 PM	61829
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	8/9/2021 9:11:51 PM	61829
Toluene	ND	0.049	mg/Kg	1	8/9/2021 9:11:51 PM	61829
Ethylbenzene	ND	0.049	mg/Kg	1	8/9/2021 9:11:51 PM	61829
Xylenes, Total	ND	0.099	mg/Kg	1	8/9/2021 9:11:51 PM	61829
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/9/2021 9:11:51 PM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-1/15'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 8:19:00 AM

 Lab ID:
 2108365-003
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	99	60	mg/Kg	20	8/12/2021 12:33:32 AM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/10/2021 11:58:21 PM	61835
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/10/2021 11:58:21 PM	61835
Surr: DNOP	93.1	70-130	%Rec	1	8/10/2021 11:58:21 PM	61835
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/9/2021 9:35:26 PM	61829
Surr: BFB	104	70-130	%Rec	1	8/9/2021 9:35:26 PM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/9/2021 9:35:26 PM	61829
Toluene	ND	0.049	mg/Kg	1	8/9/2021 9:35:26 PM	61829
Ethylbenzene	ND	0.049	mg/Kg	1	8/9/2021 9:35:26 PM	61829
Xylenes, Total	ND	0.097	mg/Kg	1	8/9/2021 9:35:26 PM	61829
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/9/2021 9:35:26 PM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-2/0'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 9:45:00 AM

 Lab ID:
 2108365-004
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	8/12/2021 1:10:44 AM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/10/2021 5:41:58 PM	61835
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/10/2021 5:41:58 PM	61835
Surr: DNOP	102	70-130	%Rec	1	8/10/2021 5:41:58 PM	61835
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/9/2021 9:59:01 PM	61829
Surr: BFB	105	70-130	%Rec	1	8/9/2021 9:59:01 PM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	8/9/2021 9:59:01 PM	61829
Toluene	ND	0.049	mg/Kg	1	8/9/2021 9:59:01 PM	61829
Ethylbenzene	ND	0.049	mg/Kg	1	8/9/2021 9:59:01 PM	61829
Xylenes, Total	ND	0.098	mg/Kg	1	8/9/2021 9:59:01 PM	61829
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/9/2021 9:59:01 PM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-2/6'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 9:52:00 AM

 Lab ID:
 2108365-005
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1400	60	mg/Kg	20	8/12/2021 1:23:09 AM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/11/2021 1:10:29 AM	61837
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/11/2021 1:10:29 AM	61837
Surr: DNOP	96.8	70-130	%Rec	1	8/11/2021 1:10:29 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/9/2021 10:22:32 PM	61829
Surr: BFB	103	70-130	%Rec	1	8/9/2021 10:22:32 PM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/9/2021 10:22:32 PM	61829
Toluene	ND	0.049	mg/Kg	1	8/9/2021 10:22:32 PM	61829
Ethylbenzene	ND	0.049	mg/Kg	1	8/9/2021 10:22:32 PM	61829
Xylenes, Total	ND	0.097	mg/Kg	1	8/9/2021 10:22:32 PM	61829
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/9/2021 10:22:32 PM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-2/10'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 9:57:00 AM

 Lab ID:
 2108365-006
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: VP
Chloride	620	60	mg/Kg	20	8/12/2021 1:35:33 AM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/11/2021 2:22:29 AM	61837
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/11/2021 2:22:29 AM	61837
Surr: DNOP	96.5	70-130	%Rec	1	8/11/2021 2:22:29 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/9/2021 10:46:10 PM	61829
Surr: BFB	103	70-130	%Rec	1	8/9/2021 10:46:10 PM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	8/9/2021 10:46:10 PM	61829
Toluene	ND	0.049	mg/Kg	1	8/9/2021 10:46:10 PM	61829
Ethylbenzene	ND	0.049	mg/Kg	1	8/9/2021 10:46:10 PM	61829
Xylenes, Total	ND	0.098	mg/Kg	1	8/9/2021 10:46:10 PM	61829
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	8/9/2021 10:46:10 PM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-3/0'

**Project:** Roy SWD 3
 Collection Date: 8/4/2021 9:57:00 AM

 **Lab ID:** 2108365-007
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	8/12/2021 1:47:57 AM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/11/2021 2:46:33 AM	61837
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/11/2021 2:46:33 AM	61837
Surr: DNOP	99.2	70-130	%Rec	1	8/11/2021 2:46:33 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/9/2021 11:56:48 PM	61829
Surr: BFB	102	70-130	%Rec	1	8/9/2021 11:56:48 PM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/9/2021 11:56:48 PM	61829
Toluene	ND	0.048	mg/Kg	1	8/9/2021 11:56:48 PM	61829
Ethylbenzene	ND	0.048	mg/Kg	1	8/9/2021 11:56:48 PM	61829
Xylenes, Total	ND	0.097	mg/Kg	1	8/9/2021 11:56:48 PM	61829
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	8/9/2021 11:56:48 PM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-3/5'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 10:22:00 AM

 Lab ID:
 2108365-008
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	61	mg/Kg	20	8/12/2021 2:00:22 AM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/11/2021 3:10:33 AM	61837
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/11/2021 3:10:33 AM	61837
Surr: DNOP	98.6	70-130	%Rec	1	8/11/2021 3:10:33 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/10/2021 12:20:18 AM	61829
Surr: BFB	104	70-130	%Rec	1	8/10/2021 12:20:18 AM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	8/10/2021 12:20:18 AM	61829
Toluene	ND	0.050	mg/Kg	1	8/10/2021 12:20:18 AM	61829
Ethylbenzene	ND	0.050	mg/Kg	1	8/10/2021 12:20:18 AM	61829
Xylenes, Total	ND	0.10	mg/Kg	1	8/10/2021 12:20:18 AM	61829
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/10/2021 12:20:18 AM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-3/10'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 10:35:00 AM

 Lab ID:
 2108365-009
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	67	60	mg/Kg	20	8/12/2021 2:12:46 AM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/11/2021 3:34:29 AM	61837
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/11/2021 3:34:29 AM	61837
Surr: DNOP	97.7	70-130	%Rec	1	8/11/2021 3:34:29 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/10/2021 12:43:50 AM	61829
Surr: BFB	102	70-130	%Rec	1	8/10/2021 12:43:50 AM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	8/10/2021 12:43:50 AM	61829
Toluene	ND	0.050	mg/Kg	1	8/10/2021 12:43:50 AM	61829
Ethylbenzene	ND	0.050	mg/Kg	1	8/10/2021 12:43:50 AM	61829
Xylenes, Total	ND	0.10	mg/Kg	1	8/10/2021 12:43:50 AM	61829
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	8/10/2021 12:43:50 AM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-4/0'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 8:24:00 AM

 Lab ID:
 2108365-010
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: VP
Chloride	ND	60	mg/Kg	20	8/12/2021 2:25:11 AM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/11/2021 3:58:26 AM	61837
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/11/2021 3:58:26 AM	61837
Surr: DNOP	99.1	70-130	%Rec	1	8/11/2021 3:58:26 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2021 1:07:21 AM	61829
Surr: BFB	102	70-130	%Rec	1	8/10/2021 1:07:21 AM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	8/10/2021 1:07:21 AM	61829
Toluene	ND	0.049	mg/Kg	1	8/10/2021 1:07:21 AM	61829
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2021 1:07:21 AM	61829
Xylenes, Total	ND	0.099	mg/Kg	1	8/10/2021 1:07:21 AM	61829
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	8/10/2021 1:07:21 AM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-4/4'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 8:32:00 AM

 Lab ID:
 2108365-011
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1500	59	mg/Kg	20	8/12/2021 2:37:35 AM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/11/2021 4:22:20 AM	61837
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/11/2021 4:22:20 AM	61837
Surr: DNOP	79.7	70-130	%Rec	1	8/11/2021 4:22:20 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/10/2021 1:30:56 AM	61829
Surr: BFB	104	70-130	%Rec	1	8/10/2021 1:30:56 AM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/10/2021 1:30:56 AM	61829
Toluene	ND	0.048	mg/Kg	1	8/10/2021 1:30:56 AM	61829
Ethylbenzene	ND	0.048	mg/Kg	1	8/10/2021 1:30:56 AM	61829
Xylenes, Total	ND	0.097	mg/Kg	1	8/10/2021 1:30:56 AM	61829
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/10/2021 1:30:56 AM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-4/10'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 8:44:00 AM

 Lab ID:
 2108365-012
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	160	60	mg/Kg	20	8/12/2021 2:49:59 AM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/11/2021 4:46:16 AM	61837
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/11/2021 4:46:16 AM	61837
Surr: DNOP	96.2	70-130	%Rec	1	8/11/2021 4:46:16 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/10/2021 1:54:24 AM	61829
Surr: BFB	102	70-130	%Rec	1	8/10/2021 1:54:24 AM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	8/10/2021 1:54:24 AM	61829
Toluene	ND	0.050	mg/Kg	1	8/10/2021 1:54:24 AM	61829
Ethylbenzene	ND	0.050	mg/Kg	1	8/10/2021 1:54:24 AM	61829
Xylenes, Total	ND	0.099	mg/Kg	1	8/10/2021 1:54:24 AM	61829
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	8/10/2021 1:54:24 AM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-4/15'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 9:00:00 AM

 Lab ID:
 2108365-013
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	<b>Date Analyzed</b>	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: VP
Chloride	220	60	mg/Kg	20	8/12/2021 3:02:23 AM	61909
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/11/2021 5:10:10 AM	61837
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/11/2021 5:10:10 AM	61837
Surr: DNOP	104	70-130	%Rec	1	8/11/2021 5:10:10 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/10/2021 2:17:51 AM	61829
Surr: BFB	101	70-130	%Rec	1	8/10/2021 2:17:51 AM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	8/10/2021 2:17:51 AM	61829
Toluene	ND	0.050	mg/Kg	1	8/10/2021 2:17:51 AM	61829
Ethylbenzene	ND	0.050	mg/Kg	1	8/10/2021 2:17:51 AM	61829
Xylenes, Total	ND	0.10	mg/Kg	1	8/10/2021 2:17:51 AM	61829
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	8/10/2021 2:17:51 AM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-5/0'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 9:05:00 AM

 Lab ID:
 2108365-014
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	86	60		mg/Kg	20	8/12/2021 2:44:59 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/11/2021 5:33:50 AM	61837
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/11/2021 5:33:50 AM	61837
Surr: DNOP	69.9	70-130	S	%Rec	1	8/11/2021 5:33:50 AM	61837
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2021 2:41:22 AM	61829
Surr: BFB	102	70-130		%Rec	1	8/10/2021 2:41:22 AM	61829
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	8/10/2021 2:41:22 AM	61829
Toluene	ND	0.050		mg/Kg	1	8/10/2021 2:41:22 AM	61829
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2021 2:41:22 AM	61829
Xylenes, Total	ND	0.10		mg/Kg	1	8/10/2021 2:41:22 AM	61829
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	8/10/2021 2:41:22 AM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-5/5'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 9:09:00 AM

 Lab ID:
 2108365-015
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	<b>Date Analyzed</b>	Batch
EPA METHOD 300.0: ANIONS					Analyst	: <b>VP</b>
Chloride	720	60	mg/Kg	20	8/12/2021 2:57:22 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/11/2021 5:57:23 AM	61837
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/11/2021 5:57:23 AM	61837
Surr: DNOP	96.5	70-130	%Rec	1	8/11/2021 5:57:23 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/10/2021 3:04:52 AM	61829
Surr: BFB	103	70-130	%Rec	1	8/10/2021 3:04:52 AM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	8/10/2021 3:04:52 AM	61829
Toluene	ND	0.050	mg/Kg	1	8/10/2021 3:04:52 AM	61829
Ethylbenzene	ND	0.050	mg/Kg	1	8/10/2021 3:04:52 AM	61829
Xylenes, Total	ND	0.099	mg/Kg	1	8/10/2021 3:04:52 AM	61829
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/10/2021 3:04:52 AM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 15 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-5/10'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 9:20:00 AM

 Lab ID:
 2108365-016
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	260	60	mg/Kg	20	8/12/2021 3:09:42 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/11/2021 6:20:51 AM	61837
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/11/2021 6:20:51 AM	61837
Surr: DNOP	99.4	70-130	%Rec	1	8/11/2021 6:20:51 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/10/2021 3:28:23 AM	61829
Surr: BFB	102	70-130	%Rec	1	8/10/2021 3:28:23 AM	61829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	8/10/2021 3:28:23 AM	61829
Toluene	ND	0.050	mg/Kg	1	8/10/2021 3:28:23 AM	61829
Ethylbenzene	ND	0.050	mg/Kg	1	8/10/2021 3:28:23 AM	61829
Xylenes, Total	ND	0.10	mg/Kg	1	8/10/2021 3:28:23 AM	61829
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/10/2021 3:28:23 AM	61829

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 16 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-5/15'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 9:40:00 AM

 Lab ID:
 2108365-017
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	180	60	mg/Kg	20	8/12/2021 3:46:48 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/11/2021 6:44:18 AM	61837
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/11/2021 6:44:18 AM	61837
Surr: DNOP	91.9	70-130	%Rec	1	8/11/2021 6:44:18 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/10/2021 12:09:35 PM	61831
Surr: BFB	105	70-130	%Rec	1	8/10/2021 12:09:35 PM	61831
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	8/10/2021 12:09:35 PM	61831
Toluene	ND	0.050	mg/Kg	1	8/10/2021 12:09:35 PM	61831
Ethylbenzene	ND	0.050	mg/Kg	1	8/10/2021 12:09:35 PM	61831
Xylenes, Total	ND	0.099	mg/Kg	1	8/10/2021 12:09:35 PM	61831
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/10/2021 12:09:35 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 17 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-6/0'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 1:25:00 PM

 Lab ID:
 2108365-018
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1200	60	mg/Kg	20	8/12/2021 3:59:09 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/11/2021 7:31:09 AM	61837
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/11/2021 7:31:09 AM	61837
Surr: DNOP	90.7	70-130	%Rec	1	8/11/2021 7:31:09 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/10/2021 1:20:22 PM	61831
Surr: BFB	107	70-130	%Rec	1	8/10/2021 1:20:22 PM	61831
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	8/10/2021 1:20:22 PM	61831
Toluene	ND	0.050	mg/Kg	1	8/10/2021 1:20:22 PM	61831
Ethylbenzene	ND	0.050	mg/Kg	1	8/10/2021 1:20:22 PM	61831
Xylenes, Total	ND	0.10	mg/Kg	1	8/10/2021 1:20:22 PM	61831
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	8/10/2021 1:20:22 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 18 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-6/1'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 1:27:00 PM

 Lab ID:
 2108365-019
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	2700	150	mg/Kg	50	8/13/2021 6:49:21 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	23	9.6	mg/Kg	1	8/11/2021 7:54:37 AM	61837
Motor Oil Range Organics (MRO)	94	48	mg/Kg	1	8/11/2021 7:54:37 AM	61837
Surr: DNOP	98.1	70-130	%Rec	1	8/11/2021 7:54:37 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2021 2:31:17 PM	61831
Surr: BFB	108	70-130	%Rec	1	8/10/2021 2:31:17 PM	61831
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	8/10/2021 2:31:17 PM	61831
Toluene	ND	0.049	mg/Kg	1	8/10/2021 2:31:17 PM	61831
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2021 2:31:17 PM	61831
Xylenes, Total	ND	0.099	mg/Kg	1	8/10/2021 2:31:17 PM	61831
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	8/10/2021 2:31:17 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 19 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-7/0'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 1:07:00 PM

 Lab ID:
 2108365-020
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	2200	59	mg/Kg	20	8/12/2021 4:23:53 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/11/2021 8:18:13 AM	61837
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/11/2021 8:18:13 AM	61837
Surr: DNOP	99.5	70-130	%Rec	1	8/11/2021 8:18:13 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2021 2:55:02 PM	61831
Surr: BFB	109	70-130	%Rec	1	8/10/2021 2:55:02 PM	61831
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	8/10/2021 2:55:02 PM	61831
Toluene	ND	0.049	mg/Kg	1	8/10/2021 2:55:02 PM	61831
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2021 2:55:02 PM	61831
Xylenes, Total	ND	0.099	mg/Kg	1	8/10/2021 2:55:02 PM	61831
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	8/10/2021 2:55:02 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 20 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-7/1.5'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 1:10:00 PM

 Lab ID:
 2108365-021
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	530	60	mg/Kg	20	8/12/2021 4:36:15 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/11/2021 8:41:47 AM	61837
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/11/2021 8:41:47 AM	61837
Surr: DNOP	92.9	70-130	%Rec	1	8/11/2021 8:41:47 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/10/2021 4:29:50 PM	61831
Surr: BFB	108	70-130	%Rec	1	8/10/2021 4:29:50 PM	61831
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	8/10/2021 4:29:50 PM	61831
Toluene	ND	0.050	mg/Kg	1	8/10/2021 4:29:50 PM	61831
Ethylbenzene	ND	0.050	mg/Kg	1	8/10/2021 4:29:50 PM	61831
Xylenes, Total	ND	0.099	mg/Kg	1	8/10/2021 4:29:50 PM	61831
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	8/10/2021 4:29:50 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 21 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-8/0'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 1:15:00 PM

 Lab ID:
 2108365-022
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	59	mg/Kg	20	8/12/2021 4:48:40 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/11/2021 9:05:23 AM	61837
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/11/2021 9:05:23 AM	61837
Surr: DNOP	88.3	70-130	%Rec	1	8/11/2021 9:05:23 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2021 4:53:36 PM	61831
Surr: BFB	108	70-130	%Rec	1	8/10/2021 4:53:36 PM	61831
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	8/10/2021 4:53:36 PM	61831
Toluene	ND	0.049	mg/Kg	1	8/10/2021 4:53:36 PM	61831
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2021 4:53:36 PM	61831
Xylenes, Total	ND	0.097	mg/Kg	1	8/10/2021 4:53:36 PM	61831
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	8/10/2021 4:53:36 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 22 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-8/9'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 1:19:00 PM

 Lab ID:
 2108365-023
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	120	60	mg/Kg	20	8/12/2021 5:01:01 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/11/2021 9:28:56 AM	61837
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/11/2021 9:28:56 AM	61837
Surr: DNOP	95.4	70-130	%Rec	1	8/11/2021 9:28:56 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2021 5:17:18 PM	61831
Surr: BFB	108	70-130	%Rec	1	8/10/2021 5:17:18 PM	61831
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	8/10/2021 5:17:18 PM	61831
Toluene	ND	0.049	mg/Kg	1	8/10/2021 5:17:18 PM	61831
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2021 5:17:18 PM	61831
Xylenes, Total	ND	0.098	mg/Kg	1	8/10/2021 5:17:18 PM	61831
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	8/10/2021 5:17:18 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 23 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-9/0'

**Project:** Roy SWD 3
 Collection Date: 8/4/2021 1:32:00 PM

 **Lab ID:** 2108365-024
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	61	mg/Kg	20	8/12/2021 5:13:23 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/11/2021 9:52:31 AM	61837
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/11/2021 9:52:31 AM	61837
Surr: DNOP	96.3	70-130	%Rec	1	8/11/2021 9:52:31 AM	61837
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2021 5:41:01 PM	61831
Surr: BFB	108	70-130	%Rec	1	8/10/2021 5:41:01 PM	61831
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	8/10/2021 5:41:01 PM	61831
Toluene	ND	0.049	mg/Kg	1	8/10/2021 5:41:01 PM	61831
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2021 5:41:01 PM	61831
Xylenes, Total	ND	0.099	mg/Kg	1	8/10/2021 5:41:01 PM	61831
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	8/10/2021 5:41:01 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 24 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-9/10'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 1:34:00 PM

 Lab ID:
 2108365-025
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	66	60	mg/Kg	20	8/12/2021 5:25:44 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2021 1:34:18 PM	61853
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/10/2021 1:34:18 PM	61853
Surr: DNOP	90.9	70-130	%Rec	1	8/10/2021 1:34:18 PM	61853
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2021 6:04:41 PM	61831
Surr: BFB	106	70-130	%Rec	1	8/10/2021 6:04:41 PM	61831
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	8/10/2021 6:04:41 PM	61831
Toluene	ND	0.049	mg/Kg	1	8/10/2021 6:04:41 PM	61831
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2021 6:04:41 PM	61831
Xylenes, Total	ND	0.098	mg/Kg	1	8/10/2021 6:04:41 PM	61831
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	8/10/2021 6:04:41 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 25 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-10/0'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 1:38:00 PM

 Lab ID:
 2108365-026
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	1000	60		mg/Kg	20	8/12/2021 5:38:04 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/10/2021 1:58:39 PM	61853
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2021 1:58:39 PM	61853
Surr: DNOP	69.6	70-130	S	%Rec	1	8/10/2021 1:58:39 PM	61853
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2021 6:28:22 PM	61831
Surr: BFB	108	70-130		%Rec	1	8/10/2021 6:28:22 PM	61831
EPA METHOD 8021B: VOLATILES						Analyst	: RAA
Benzene	ND	0.025		mg/Kg	1	8/10/2021 6:28:22 PM	61831
Toluene	ND	0.050		mg/Kg	1	8/10/2021 6:28:22 PM	61831
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2021 6:28:22 PM	61831
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2021 6:28:22 PM	61831
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	8/10/2021 6:28:22 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 26 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-10/0.5'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 1:40:00 PM

 Lab ID:
 2108365-027
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1400	60	mg/Kg	20	8/12/2021 6:15:09 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/10/2021 2:22:57 PM	61853
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/10/2021 2:22:57 PM	61853
Surr: DNOP	81.8	70-130	%Rec	1	8/10/2021 2:22:57 PM	61853
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2021 6:52:00 PM	61831
Surr: BFB	106	70-130	%Rec	1	8/10/2021 6:52:00 PM	61831
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	8/10/2021 6:52:00 PM	61831
Toluene	ND	0.049	mg/Kg	1	8/10/2021 6:52:00 PM	61831
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2021 6:52:00 PM	61831
Xylenes, Total	ND	0.099	mg/Kg	1	8/10/2021 6:52:00 PM	61831
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	8/10/2021 6:52:00 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 27 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-11/0'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 1:50:00 PM

 Lab ID:
 2108365-028
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	200	60		mg/Kg	20	8/12/2021 6:27:29 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/10/2021 2:47:13 PM	61853
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2021 2:47:13 PM	61853
Surr: DNOP	63.3	70-130	S	%Rec	1	8/10/2021 2:47:13 PM	61853
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2021 7:15:45 PM	61831
Surr: BFB	107	70-130		%Rec	1	8/10/2021 7:15:45 PM	61831
EPA METHOD 8021B: VOLATILES						Analyst	: RAA
Benzene	ND	0.025		mg/Kg	1	8/10/2021 7:15:45 PM	61831
Toluene	ND	0.050		mg/Kg	1	8/10/2021 7:15:45 PM	61831
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2021 7:15:45 PM	61831
Xylenes, Total	ND	0.10		mg/Kg	1	8/10/2021 7:15:45 PM	61831
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	8/10/2021 7:15:45 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 28 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-11/0.5'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 1:52:00 PM

 Lab ID:
 2108365-029
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1900	60	mg/Kg	20	8/12/2021 6:39:50 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2021 3:11:28 PM	61853
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/10/2021 3:11:28 PM	61853
Surr: DNOP	90.9	70-130	%Rec	1	8/10/2021 3:11:28 PM	61853
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/10/2021 7:39:21 PM	61831
Surr: BFB	105	70-130	%Rec	1	8/10/2021 7:39:21 PM	61831
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	8/10/2021 7:39:21 PM	61831
Toluene	ND	0.050	mg/Kg	1	8/10/2021 7:39:21 PM	61831
Ethylbenzene	ND	0.050	mg/Kg	1	8/10/2021 7:39:21 PM	61831
Xylenes, Total	ND	0.099	mg/Kg	1	8/10/2021 7:39:21 PM	61831
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/10/2021 7:39:21 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 29 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-12/0'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 11:20:00 AM

 Lab ID:
 2108365-030
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	8/12/2021 6:52:12 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	8/10/2021 3:35:52 PM	61853
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/10/2021 3:35:52 PM	61853
Surr: DNOP	100	70-130	%Rec	1	8/10/2021 3:35:52 PM	61853
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/10/2021 8:03:00 PM	61831
Surr: BFB	107	70-130	%Rec	1	8/10/2021 8:03:00 PM	61831
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	8/10/2021 8:03:00 PM	61831
Toluene	ND	0.050	mg/Kg	1	8/10/2021 8:03:00 PM	61831
Ethylbenzene	ND	0.050	mg/Kg	1	8/10/2021 8:03:00 PM	61831
Xylenes, Total	ND	0.10	mg/Kg	1	8/10/2021 8:03:00 PM	61831
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	8/10/2021 8:03:00 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 30 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-12/5'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 11:30:00 AM

 Lab ID:
 2108365-031
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	8/12/2021 7:29:16 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/10/2021 4:00:04 PM	61853
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/10/2021 4:00:04 PM	61853
Surr: DNOP	94.3	70-130	%Rec	1	8/10/2021 4:00:04 PM	61853
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/10/2021 9:13:43 PM	61831
Surr: BFB	107	70-130	%Rec	1	8/10/2021 9:13:43 PM	61831
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	8/10/2021 9:13:43 PM	61831
Toluene	ND	0.048	mg/Kg	1	8/10/2021 9:13:43 PM	61831
Ethylbenzene	ND	0.048	mg/Kg	1	8/10/2021 9:13:43 PM	61831
Xylenes, Total	ND	0.096	mg/Kg	1	8/10/2021 9:13:43 PM	61831
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	8/10/2021 9:13:43 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 31 of 37

Date Reported: 8/18/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-12/10'

 Project:
 Roy SWD 3
 Collection Date: 8/4/2021 11:37:00 AM

 Lab ID:
 2108365-032
 Matrix: SOIL
 Received Date: 8/7/2021 9:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: VP
Chloride	ND	60	mg/Kg	20	8/12/2021 8:06:19 PM	61932
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2021 4:24:24 PM	61853
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/10/2021 4:24:24 PM	61853
Surr: DNOP	88.0	70-130	%Rec	1	8/10/2021 4:24:24 PM	61853
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/10/2021 9:37:24 PM	61831
Surr: BFB	104	70-130	%Rec	1	8/10/2021 9:37:24 PM	61831
EPA METHOD 8021B: VOLATILES					Analyst	:: RAA
Benzene	ND	0.025	mg/Kg	1	8/10/2021 9:37:24 PM	61831
Toluene	ND	0.050	mg/Kg	1	8/10/2021 9:37:24 PM	61831
Ethylbenzene	ND	0.050	mg/Kg	1	8/10/2021 9:37:24 PM	61831
Xylenes, Total	ND	0.099	mg/Kg	1	8/10/2021 9:37:24 PM	61831
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/10/2021 9:37:24 PM	61831

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 32 of 37

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2108365** *18-Aug-21* 

Client: EOG

**Project:** Roy SWD 3

Sample ID: MB-61909 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61909 RunNo: 80443

Prep Date: 8/11/2021 Analysis Date: 8/11/2021 SegNo: 2836571 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-61909 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61909 RunNo: 80443

Prep Date: 8/11/2021 Analysis Date: 8/11/2021 SeqNo: 2836572 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.4 90 110

Sample ID: MB-61932 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **61932** RunNo: **80485** 

Prep Date: 8/12/2021 Analysis Date: 8/12/2021 SeqNo: 2837821 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-61932 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61932 RunNo: 80485

Prep Date: 8/12/2021 Analysis Date: 8/12/2021 SeqNo: 2837822 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.4 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit
S Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 33 of 37

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2108365** *18-Aug-21* 

Client: EOG

**Project:** Roy SWD 3

Sample ID: MB-61835	SampT	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch	ID: <b>61</b>	835	F	RunNo: 8	0451				
Prep Date: 8/9/2021	Analysis D	ate: 8/	10/2021	5	SeqNo: 2	835861	Units: mg/k	(g		
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	12		10.00		116	70	130			
Sample ID: LCS-61835	SampT	ype: <b>LC</b>	s	Tes	tCode: El	esel Rang	e Organics			
Client ID: LCSS	Batch	ID: <b>61</b>	835	RunNo: <b>80451</b>						
Prep Date: 8/9/2021	Analysis D	ate: 8/	10/2021	5	SeqNo: <b>2835863</b>			3 Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.6	68.9	141			
Surr: DNOP	4.8		5.000		96.8	70	130			
Sample ID: MB-61837	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: <b>61</b>	837	F	RunNo: 8	0451				
Prep Date: <b>8/9/2021</b>	Analysis D	ate: <b>8/</b>	11/2021	8	SeqNo: 2	835925	Units: mg/k	(g		
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		126	70	130			
Sample ID: LCS-61837	SampT	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics								

Sample 1D. <b>LC3-01037</b>	Sampi	уре. с	3	163	icode. Ei	A Method	OU I SIVI/D. DIE	sei Kange	Ulyanics					
Client ID: LCSS	Batch	ID: <b>61</b> 8	837	R	RunNo: 8	0451								
Prep Date: <b>8/9/2021</b>	Analysis D	ate: 8/	11/2021	S	SeqNo: 2	835926	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range Organics (DRO)	56	10	50.00	0	111	68.9	141							
Surr: DNOP	6.1		5.000		122	70	130							

Sample ID: LCS-61853	Sampi	ype: LC	S	les	tCode: El	PA Method	8015M/D: Di	esei Rang	e Organics	
Client ID: LCSS	Batch	n ID: <b>61</b>	853	F	RunNo: 8	0463				
Prep Date: <b>8/9/2021</b>	Analysis D	oate: 8/	10/2021	S	SeqNo: 2	836331	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	68.9	141			
Surr: DNOP	4.9		5.000		98.7	70	130			

\_\_\_\_

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 34 of 37

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2108365** 

18-Aug-21

Client: EOG

**Project:** Roy SWD 3

Sample ID: MB-61853 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 61853 RunNo: 80463

Prep Date: 8/9/2021 Analysis Date: 8/10/2021 SeqNo: 2836334 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 12 10.00 116 70 130

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 35 of 37

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2108365

18-Aug-21

**Client:** EOG

**Project:** Roy SWD 3

Sample ID: mb-61829 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 61829 RunNo: 80405

Prep Date: 8/7/2021 Analysis Date: 8/9/2021 SeqNo: 2833801 Units: mq/Kq

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Gasoline Range Organics (GRO) NΩ 5.0

Surr: BFB 1100 1000 106 70 130

Sample ID: Ics-61829 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61829 RunNo: 80405

Prep Date: 8/7/2021 Analysis Date: 8/9/2021 SeqNo: 2833802 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 O 103 78.6 131

Surr: BFB 1200 1000 115 70 130

Sample ID: Ics-61831 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61831 RunNo: 80450

Prep Date: 8/8/2021 Analysis Date: 8/10/2021 SeqNo: 2835774 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 26 5.0 25.00 0 105 78.6 131

Surr: BFB 1200 1000 120 70 130

TestCode: EPA Method 8015D: Gasoline Range Sample ID: mb-61831 SampType: MBLK

Client ID: PBS Batch ID: 61831 RunNo: 80450

Prep Date: 8/8/2021 Analysis Date: 8/10/2021 SeqNo: 2835776 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** PQL LowLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1100 1000 108 70 130

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 36 of 37

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2108365

18-Aug-21

**Client: EOG** 

**Project:** Roy SWD 3

Sample ID: mb-61829 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 61829 RunNo: 80405

Prep Date: 8/7/2021 Analysis Date: 8/9/2021 SeqNo: 2833842 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Benzene ND 0.025

Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.1 1.000 106 70 130

Sample ID: LCS-61829 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 61829 RunNo: 80405

Analysis Date: 8/0/2021 SanNo: 2022012 Drop Data: 9/7/2024 Unito: mall/a

Prep Date: 8///2021	Anaiysis L	Jate: <b>8/</b>	9/2021	٤	seqino: 2	833843	Units: mg/K	.g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.3	80	120			
Toluene	0.88	0.050	1.000	0	88.2	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.0	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: LCS-61831 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 61831 RunNo: 80450

Prep Date: 8/8/2021	/8/2021 Analysis Date: 8/10/2021			8	SeqNo: 2	835847	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.8	80	120			
Toluene	0.88	0.050	1.000	0	88.1	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Sample ID: mb-61831 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 61831 RunNo: 80450

	Prep Date: <b>8/8/2021</b>	Analysis	Date: 8/	10/2021	8	SeqNo: 2	835849	Units: mg/k	(g		
	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
В	enzene	ND	0.025								
Т	oluene	ND	0.050								
E	thylbenzene	ND	0.050								

Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.000 109 70 130 1.1

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

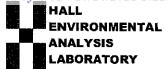
Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 37 of 37



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

### Sample Log-In Check List

Client Name: EOG	Work Order Number	er: <b>210836</b>	5	RcptNo	o: 1
Received By: Sean Livingston	8/7/2021 9:10:00 AM	I	S-L	y of	
Completed By: Sean Livingston	8/7/2021 9:34:38 AM	Į	5L 5L	,	
Reviewed By: @ 08/07/202/			ب کیست		
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 <b>⊻</b>	) No □	NA 🗌	
o. was an altempt made to coor the samples?		res 💌	, 140	NA L	
4. Were all samples received at a temperature o	f >0° C to 6.0°C∵	Yes 🗸	No 🗌	na 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No □		
6. Sufficient sample volume for indicated test(s)?	?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No 🗀		•
8. Was preservative added to bottles?		Yes 🗌	No 🗸	NA 🗆	
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes 🗌	No 🗆	NA 🗹	
10, Were any sample containers received broken	?	Yes 🗆	No 🗹	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH:	r >12 unless noted)
2. Are matrices correctly identified on Chain of C	ustody?	Yes 🗹	No 🗌	Adjusted?	
3. Is it clear what analyses were requested?		Yes 🗹	No 🗆	A Partie	1 1
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 📙	Checked by:	SGR 8/7/21
Special Handling (if applicable)					
15, Was client notified of all discrepancies with th	is order?	Yes	l No □	NA 🗹	
Person Notified:	Date:		The state of the s	···· -···	
By Whom:	Via:	eMail	☐ Phone ☐ Fax	☐ In Person	
Regarding:					
Client Instructions:		West and the second sec			
16. Additional remarks:					1
17. <u>Cooler Information</u>					
	al Intact Seal No	Seal Date	Signed By		
1 0.6 Good		5 - 1-		- unterlained	
2 2.8 Good					
3 4.7 Good	* ************************************		THE CONTRACT		

Received by OCD: 10/14/2021 1:12:17 PM

			nger Env.	Turn-Around	خ ا □ Rush	Day					ALL IAL						
				Project Nam	e: Ray Swo #	7.3				w	vw.hall	envi	ronme	ental.c	om		
Mailing A	\ddress: i	EOG - 105	S 4th St, Artesia NM, 88210					49	01 H	awkins	NE -	Albi	uquero	que, N	IM 87	109	
Ranger:	PO Box 2	201179, A	ustin TX 78720	Project #: 53	75					5-345-			ax 50				
Phone 7	#: 521 <b>-</b> 3	35-1785								, i	Aı	naly	sis Re	eques	it		
email o	Fax#: \	Vill@Ran	gerEnv.com	Project Mana	ager: W. Kierd	dorf		<u> </u>									
QA/QC F ■ Stan	Package: dard		☐ Level 4 (Full Validation)					DRO / MRO)									
Accredi		☐ Az Co	empliance	Sampler: On Ice:	KIERDORF Yes	□ No		/ DRC	300)								
	(Type)	Excel	Pull software and	# of Coolers:	ta disertion seminaria			SRO.	A 30			l					
			Sample Name	Cooler Temp Container Type and #	. Transmission	e remarks HEAL No. Z108365	BTEX (8021)	TPH:8015D(GRO /	Chloride (EPA								
8/4/21	0735	SOIL	TH-1/0'	1 x 4ne JAR	ILE	0001	Х	Х	×								
	0755		TH-1/8'			602		1									
	0819		TH-1/15"			<i>७०</i> ३											
	04A2		TH-3/0'			PŒ											
	0952		T11-2/5'			००५											
	0957		TH-2/10'			<u> </u>											
	1022		TH-3/0'			907			Ш		-			$\perp$			
	inas		TH-3/5'			800								<u> </u>			
	भ०३उ		TH-3/10'			೦೦೪	Ш	Ш					_				
	0824		TH-4/0'			00	Ш				$\perp \perp$						
	0832		TH-4/254"			0((											 
	0844	1	TH-4/10'	1	<u>                                     </u>	012	<u>'</u>	$\mathcal{T}$	1								
Date: ちん/かれ	Time: <i>OGAC</i>	Relinquish	ed by:	Received by:	Via:	Plate Time	l٥.	. ( ) .	TO:	to EO دی ده: - ک	اح	sia ,	<i>₽17</i> ~	CHAS	er Ser	ne"	
Date: 8/6/21	Time:	Relinquish	ed by:	Received by:	Via: €	Date Time 8/7/21 9:10	12	. ૪ ±	F () =	7.80 4.7	_						 

			stody Record	Turn-/	Around	Time: 5 0 d	aux	F	Ħ		ŀ	4 A I		FN	VTI	PO	NR	4FI	NTA	2 Ni	of 3
Client:	EOG-Art	esia / Rar	nger Env.	≱KSt	andard	□ Rusl	h		2	\$ \$									TO	L DV	,
				Projec	t Name	EROY SWO #				ii	_			enviro					. •		
Mailing	Address: I	OG - 105	S 4th St, Artesia NM, 88210	1		ŕ			40	na i	بايداد						IM 87	100			
Ranger	PO Box 2	201179, A	ustin TX 78720	Projec	t #: 53	75						45-39					-4107				
Phone	#: 521-30	35-1785		1						JI. U	00-0	+0-03		alysi							
	<del></del>		gerEnv.com	Projec	t Mana	ger: W. Kier	dorf														
	Package:		☐ Level 4 (Full Validation)						) / MRO)												Cof 3
Accred	itation:	□ Az Co	mpliance	Samp	ler: W. W	CEERSORF			DRC	<u> </u>											
■ NEI		□ Other		On Ice		⊡∕Yes	□ No		RO/	(300)											
■ EDI	<b>)</b> (Type) <sub>-</sub>	Excel	· · · · · · · · · · · · · · · · · · ·	# of C	oolers: r Temp	(including CF): <	ee remarks	(8021)	D(G	EPA											
Date	Time	Matrix	Sample Name	Conta	iner	Preservative Type		BTEX (80	TPH:8015D(GRO / DRO	Chloride (EPA											
8/4/21	0900	SOIL	TH 15 THA/15	124	toz Spr	ICE	A13	×	×	×			$^{+}$	$\top$	$\dagger$	$\dagger$		$\dashv$	$\top$	1	Н
1	0905	1	TH-S/0'	1 ~ -	1	1	013	1	i	1	<del>                                     </del>		+	$\top$	+					+	H
1	0909		TH-5/5'	1 1			015		$\vdash$				$\dashv$	$\dashv$	+	1		$\dashv$		+	Н
-	0920		TH-5/10'				016	$\dashv$	+	$\vdash$	$\vdash$		+	$\dashv$	+	$\vdash$	H	+	+	+	H
	0940		TH-5/15"				1	+	+	H	<del> </del>		+	$\dashv$	+	+		+	+	+	H
	1325		TH-6/0'				017	+	+	H					+	+	Н	+	+	+	H
	1327		TH-5/11	<u> </u>			019	+	+				+	$\top$	<del> </del>	$\dagger$					H
	i307	-	TH-7/0'	<u> </u>			070	+					+	$\dashv$	+	+			_	1	
	1310		TH-7/1.5'				020				<b></b>			+	+					+	Ħ.
-	1316		TH-8/0'				022			H				_	$\top$	1					$\sqcap$
	1319		TH-8/9"				023		$\top$	1				$\top$	<del> </del>	<del> </del>				<del>                                     </del>	
	1332	1	Th-9/0'		· · ·		024	1	+1					_		†	1				П
Date:	Time:	Relinquish		Receive	ed by:	Via:	Date Time	Rer	nark	s: B	ill to	EOG	Artes	sia			ıl			-	
8/5/202				I W	m	uin	8/6/21 620	٥.	<del>ئ</del> م	0	=0·(	ے ہ م									
Date:	Time:	Relinquish	ed by:	Receive	•	Via:	Date Time	2,	もご	د	- 2 .	9°- 7°-									
190/2		Ql	bmitted to Hall Environmental may be sub	560																	

			ıstody Record	Turn-Aroun		Davo	]			н	ΔΙΙ		NVI	DO	NA	1FN	ITA	30+ •	Receiv 3
Client: I	EOG-Arl	esia / Rai	nger Env.		> d □Rush	Dars		(A. T. W					SIS						ed b
				Project Nan	ne: KRoy Swi	7 # 3							rironm						у ос
Mailing A	Address:	EOG - 105	S 4th St, Artesia NM, 88210	1				49	01 H	awkir	ıs NE	- Alb	uquer	que, N	VM 87	109			D: 1
Ranger:	PO Box	201179, A	ustin TX 78720	Project #: 5	375						5-397		ax 50						0/14
Phone :	#: 521-3	35-1785										Analy	/sis R	eques	st				1/202
email o	r Fax#: \	Vill@Ran	gerEnv.com	Project Mar	ager: W. Kier	dorf		()				:							11:
QA/QC i ■ Stan	⊃ackage: ıdard		☐ Level 4 (Full Validation)					) / MRO)										-	Received by OCD: 10/14/2021 1:12:17 PM
Accredi			mpliance	،۔۔ٔ :Sampler	KEERDORF			DR(	<u> </u>										We
■ NEL		□ Other		On Ice:	'Yes	□ No		ر ا	(300)										
■ EDU	(Type)	Excel	<u> </u>	# of Coolers	i: 3 D(including CF): <_	e remark	21)	D(G	ЕРА										
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type		BTEX (8021)	TPH:8015D(GRO / DRO	Chloride (EPA		ŧ	ه.			:				
8/4/21	1334	SOIL	TH-9/10"	1 x 402 JA		015	צ	火	×					<b></b>				$\blacksquare$	
1.70~1	1338	ì	TH-10/0°	1	1		1	j	i					_	$\vdash$		+		
	1390		Tu-10/0.5'			026			+					+	$\forall$				
	1350	<b></b>	TH-11/0'			028			+					<b></b>	-			+	
			TH-11/0.5'		+ +	029			$\dashv$						$\vdash$				
	1352		TH-12/0'			1		+	+						+	-			
	1130		TH-12/5'			030		$\dashv$	+							-		- $+$ $+$ $+$	
	1137		TH-12/10'		一上一	032		1	1									+	
			,			0,0											1		
										<u> </u>					$  \cdot  $			$\dashv \dashv$	
																	$\dagger \dagger$	$\neg \neg$	
Date: 8/6/2021	Time:	Relinquish	ed by:	Received by:	Via:	Date Time				I to E つし こつこう	OG AI	tesia	<b>-</b>	<b>!</b>	<u> </u>	<b>!</b>	-11	•	
Date:	Time:	Relinquish	•	Received by:	Via:	Date Time	7.	8±	0 7	-7.5 =4.7	ہ⊃ر _ہ د								Page 164
16/01/21	1900	lucu	mi	Sec	ری در ۱۵ از ۱	8/7/21 9:10	_ 4	. 4 3			tracted c								164

### **ATTACHMENT 5**

JAMES H & BETTY R HOWELL REVOCABLE TRUST SEED MIX

### James H & Betty R Howell Revocable Trust Seed Mix

1lb per acre of Plains Bristlegrass2lbs per acre of Green Sprangletop

3lbs per acre of Side Oats Gramma

2lbs per acre of Blue Gramma

Increase to 16lbs per acre if broadcast.

**Add Reclamation Mix** 

40% Ryegrass (Annual)

10% Millet

7.5% Kleingrass

5.7% Sideoats

5% Green Sprangletop

7.5% Bristlegrass

10% Western Wheatgrass

10% Buffalograss

2.5% Blue Grama

**PLANTING RATE 20 lbs. per acre** 

**Updated 5/23/2021** 

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

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 56066

#### **CONDITIONS**

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	56066
	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 closure confirmation samples not to exceed 400 ft2 is approved. Removal of the plastic liner of the closed pit and a geosynthetic clay liner installation is approved. A geosynthetic clay liner located outside of the closed pit area is allowed at 6 ft below ground surface once all sample points have been vertically delineated and it has been determined that there is no imminent threat to ground water, surface water, human health, or the environment. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The work will need to occur 90 days after the work plan has been approved.	4/21/2022