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

Incident ID	nAPP2111048003
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points  $\boxtimes$ Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC  $\boxtimes$ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Chase Settle Title: Rep Safety & Environmental Sr have Sottle Date: 06/17/2021 Signature: Chase Settle@eogresources.com Telephone: 575-748-1471 email: **OCD Only** Robert Hamlet Date: 9/2/2022 Received by: Approved X Approved with Attached Conditions of Approval Denied Deferral Approved Robert Hamlet 9/2/2022 Date: Signature:

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## SITE UPDATE REPORT

STATE D SWD #1 UNIT N, SECTION 16, TOWNSHIP 20S, RANGE 24E EDDY COUNTY, NEW MEXICO 32.56827, -104.59513 RANGER REFERENCE NO. 5375

**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

MAY 18, 2022

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Max Cook, CAPM (TX) Senior Project Manager

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William Kierdorf, REM Project Manager

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- Excavation Area Map
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- Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data
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## ATTACHMENTS

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



## SITE UPDATE REPORT STATE D SWD #1 UNIT N, SECTION 16, TOWNSHIP 20S, RANGE 24E EDDY COUNTY, NEW MEXICO 32.56827, -104.59513 RANGER REFERENCE NO. 5375

## 1.0 SITE LOCATION AND BACKGROUND

The State D SWD #1 (Site) is located on State land, approximately 22 miles southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit N, Section 16, T20S-R24E at GPS coordinates 32.56827, -104.59513. The Site formerly consisted of a disposal well, a tank battery with an earthen containment berm, pump houses and associated equipment.

On March 21, 2021, historical crude oil impacts were documented at the Site associated with the decommissioning of the tank battery. Visual impacts were observed upon removal of the oil tanks. As such, the release volume and date are unknown, and no liquids were available for recovery. The incident was reported to the New Mexico Oil Conservation Division (NMOCD) on April 20, 2021 (NMOCD Incident #nAPP2111048003). EOG Resources, Inc. (EOG) has engaged Ranger Environmental Services, Inc. (Ranger) to assist in the remediation and reclamation efforts at the Site.

In order to properly delineate the extent of the crude oil soil impacts, additional assessment activities were completed at the Site in May and June of 2021. Based on the findings of the assessment activities, a *Site Characterization and Proposed Remediation Plan* (Remediation Plan) report was prepared and submitted to the NMOCD on June 17, 2021. This report included site characterization details, details of the completed assessment activities, proposed regulatory cleanup criteria, and a proposed remediation strategy to address the site impacts. On September 22, 2021, the NMOCD approved the proposed remediation plan. Due to the extent of the soil impacts at the Site, the approved remediation plan called for a 120-day time period to complete the proposed activities.

Prior to the commencement of remedial activities at the Site, a review of internal EOG policies was completed and it was determined that due to the depth of the proposed excavation activities at the Site (proposed to an approximate depth of 24 feet below ground surface (bgs)), an excavation plan stamped by professional engineer (P.E.) would be required. Based on this requirement, an appropriate party was engaged to prepare the necessary plan. Due to difficulties encountered in finding an appropriate party to prepare the excavation plan and the estimated time frame to complete such a plan, EOG submitted a request to the NMOCD on January 20, 2022 for an extension to July 21, 2022 to complete the site remediation activities and to submit the site closure report. On January 21, 2022, the NMOCD granted an extension; however, the approval was limited to an additional 90-day period to complete the project. Copies of the associated NMOCD correspondence are attached.

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

P.O. BOX 201179 AUSTIN, TX 78720 OFFICE: 512/335-1785 FAX: 512/335-0527

Due to the extent of required excavation and time frame to conduct the necessary excavation activities at the Site, a *Site Update Report*, dated April 18, 2022, was prepared and submitted to the NMOCD. The update report provided details of the completed remediation efforts at the Site and an anticipated completion time frame for the project. In the *Site Update Report*, an additional 30 days to complete remedial efforts at the Site was requested.

The following *Site Update Report* has been prepared to provide an update to remedial activities completed subsequent to the April 18, 2022 *Site Update Report,* provide information on plans to address one outstanding area, and proposed the assessment of excavated material for potential re-use at the location as backfill.

A copy of the previously submitted Form C-141 Release Notification, Assessment/ Characterization and Remediation Plan sections of Form C-141, are attached. A Topographic Map and Area Map noting the location of the subject Site and surrounding areas, and a Site Map illustrating the Site features and sampling locations, are provided in the Figures section.

## 2.0 SITE REMEDIATION

## 2.1 Initial Soil Excavation and Confirmation Sampling

As detailed in the *Site Update Report* dated April 18, 2022, upon receiving the professional engineer (P.E.) approved excavation plan, EOG initiated soil removal operations at the Site on April 11, 2022. Soil removal operations were initially completed to the anticipated boundaries and depths presented in the NMOCD approved Remediation Plan. At the time the *Site Update Report* was prepared and submitted to the NMOCD, soil removal operations had been completed in the majority of the excavation; however, the proposed 24 foot deep area had only been excavated to a depth of approximately 12 to 13 feet and was awaiting the required benching and shoring to be completed to allow for safe soil removal activities.

On April 13 and 14, 2022, initial confirmation soil samples were collected from 13 of the 26 locations presented in the NMOCD approved sampling plan. An additional three samples were collected on April 19, 2022, as the areas were completed to the initial approved excavation boundaries.

Upon review of the laboratory analytical results, 13 of the of the 16 samples collected during the initial soil removal operations were documented to have concentrations within the applicable Table 1 Criteria. Three samples were noted to have concentrations in exceedance of the applicable Table 1 Criteria. The areas documented to have elevated concentrations were ultimately over-excavated and additional confirmation samples were collected from the respective areas.

## 2.2 <u>Stabilization Over-Excavation Activities</u>

As required by the P.E. approved excavation plan, benching and shoring operations were required at the Site to allow for the safe removal of material to the proposed maximum excavation depth of 24 feet bgs. Benching and shoring activities were completed to the north, east, south, and west of the area anticipated maximum depth of approximately 24 feet bgs.

During the completion of the necessary benching and shoring activities, areas previously assessed, sampled and documented to be with the applicable Table 1 Criteria, as well as areas outside of the impact/remediation area at the Site were removed. Throughout the remediation



process at the Site, excavated material believed to be, or documented (through confirmation soil samples) to be within the Table 1 Closure Criteria, was segregated and placed aside for potential re-use as backfill. Prior to utilizing the material as backfill, it will be assessed via laboratory sample analysis to confirm all concentrations are within the applicable Table 1 Criteria. Details of the proposed backfill material assessment is included below.

As the excavation was completed to the proposed maximum depth of approximately 24 feet bgs, elevated field organic vapor monitor (OVM) readings and visual impacts were noted to still be present in the area. To address the observed impacts, additional removal operations were completed in the area to a depth of approximately 27 feet. Additionally, the area was laterally over excavated to address observed areas of concern.

#### 2.3 <u>Vertical Assessment Test Excavations</u>

Upon reaching a depth of approximately 27 feet bgs, visual impacts in the area were no longer present; however, elevated field OVM readings were still present at the excavation base. To evaluate conditions and determine if additional removal was necessary three test excavations were completed in the area. During the test excavation assessment, Ranger personnel collected field OVM readings at approximate one foot intervals from approximately 27 feet to the total depth of each test excavation. Soil samples for laboratory analysis were collected from various depths of each test excavation, including the areas exhibiting the most elevated OVM reading. A total of 12 soil samples, four samples from each test excavation, were collected for laboratory analysis.

Upon review of the soil sample laboratory analytical results, all 12 samples were documented to have BTEX, TPH and chloride concentrations within the applicable Table 1 Criteria. A site map denoting the location of the three test excavations within the 27 foot deep main excavation is included in the Figures section of the report.

## 2.4 <u>Confirmation Soil Sampling & Limited Over-Excavation</u>

Based on the results of the test excavation soil samples, confirmation sampling activities were completed at the Site on May 9, 2022. Due to the required benching and shoring activities, the NMOCD approved sampling plan was altered to adequately assess the excavated areas based on the adjusted excavation boundaries. During the May 9, 2022, sampling activities a total of 19 soil samples were collected for laboratory analysis.

From the original NMOCD approved sample areas, Ranger collected confirmation samples on May 9, 2022 from the 10 areas that had yet to be assessed. The three locations ("S3-WW", "S5-WW", "S6-WW") documented to have elevated concentrations during the April 2022 assessments, were over-excavated and additional confirmation samples were collected from these areas. Due to the benching and shoring activities, six additional samples were collected from locations along the eastern and western benching/shoring areas to document area conditions.

Upon review of the soil sample laboratory analytical results from May 9, 2022, 17 of the 19 samples collected were documented to have BTEX, TPH and chloride concentrations below the applicable Table 1 Criteria. The remaining two samples were noted to have concentrations that exceeded applicable Table 1 Criteria. The sample collected at the base of the area excavated to 27 feet (S4-B) was noted to have a TPH concentration that exceeded of the applicable Table 1 Criteria and the sample collected on the northern portion of the eastern benching/shoring area (EB-N) was noted to have a chloride concertation in exceedance of the applicable Table 1 Criteria.



To address two sample areas exhibiting concentrations in exceedance of the Table 1 Criteria, additional soil removal operations and confirmation sampling activities were completed on May 13, 2022. In the vicinity of sample location "S4-B", soil removal was completed to a depth of approximately 27.5 feet bgs and an additional sample ("S4-BA") was collected from the area. In the vicinity of sample location "EB-N", the area was completed to approximately seven feet bgs and an additional sample ("EB-NA") was collected from the area.

## 2.5 <u>Confirmation Sample Results and Additional Over-Excavation</u>

Upon review of the confirmation sample results, all but one sample area ("EB-NA") has been brought into attainment of the Table 1 (groundwater ≤50 feet) criteria and the Restoration, Reclamation and Re-Vegetation criteria detailed in 19.15.29.13 NMAC. Soil chloride concentrations in sample "EB-NA" were documented to be 610 ppm chloride, minimally in exceedance of the 600 ppm Table 1 Criteria. A comprehensive sample results table summarizing the laboratory sample results for all samples collected during the remediation process is attached. Copies of the laboratory analytical reports including chain-of-custody documentation are attached.

To address the elevated chloride concertation in the "EB-NA" sample area, additional soil removal operations will be completed in the area, and an additional sample will be collected for laboratory analysis. The activities are scheduled to be completed on May 20, 2022, to allow for required NMOCD notification timeframe that final sampling activities are to be completed. The additional sampling activities will be completed in accordance with the methodologies and procedures detailed below in section 2.6.

#### 2.6 <u>Sampling Methodologies, QA/QC Procedures, and NMOCD Correspondence</u>

Throughout the remediation process at the Site, all samples collected for laboratory analysis were collected and managed using standard QA/QC and chain-of-custody procedures.

Confirmation soils samples collected at the Site were done so in the methodology presented in the NMOCD approved Remediation Plan as five-part composite samples. The samples collected during the additional vertical test excavation assessment activities were collected as individual grab samples.

Upon collection, all soil samples selected for laboratory analysis were submitted to Hall Environmental Analysis 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.

Prior to all confirmation sampling events, notice was provided to the NMOCD in accordance with NMAC 19.15.29.12(D). Copies of the associated notifications are attached.

## 3.0 GENERATED MATERIAL MANAGEMENT

## 3.1 Waste Disposal

All impacted soils generated during the remedial excavation activities were transported and disposed of at Lea Land disposal facility in Lea County, New Mexico.



## 3.2 Non-Impacted Material Assessment and Proposed Re-Use

As previously stated, a significant volume of soil believed not to be impacted or confirmed to be below the applicable Table 1 Criteria was excavated as part of the P.E. approved excavation plan for safety purposes. It is estimated that approximately 5,000 cubic yards of material has been excavated from non-impacted areas at the Site. Based on the source locations of the material, it is anticipated that the soils are within the most stringent Table 1 Criteria and suitable for re-use as backfill at the location.

To confirm that the material is within the applicable Table 1 Criteria, it is proposed to assess the material via one five part composite sample per 50 cubic yards of material. 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. Upon collection, the soil samples will submitted to and approved laboratory for analysis of TPH, BTEX, and chloride using NMOCD approved laboratory methods.

Upon review of the laboratory analytical results, the material documented to have concentrations within the Table 1 (groundwater  $\leq$ 50 feet) criteria will be utilized as backfill at the location. All material documented to have concentrations in exceedance of the Table 1 (groundwater  $\leq$ 50 feet) criteria will be removed from the location and will be transported to an approved disposal facility.

## 4.0 SITE CLOSURE

Upon completion of the additional over-excavation/confirmation sampling activities in the "EB-NA" sample area and confirmation that the area has been brought into attainment of the Table 1 target criteria, a Closure Form C-141 and full Closure Report will be submitted to the NMOCD, and Site closure will be requested. The Closure Report will be completed in accordance with the closure reporting criteria detailed in NMAC 19.15.29.12(E).



# **FORM C-141**

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

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Incident ID	nAPP2111048003
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	Incident # (assigned by OCD)
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

## **Location of Release Source**

Latitude 32.56827

Longitude -104.59513

(NAD 83 in decimal degrees to 5 decimal places)

Site Name State D SWD #1	Site Type Battery
Date Release Discovered 03/21/2021	API# (if applicable) <b>30-015-21572</b>

Unit Letter	Section	Township	Range	County
N	16	20S	24E	Eddy

Surface Owner: 🛛 State 🗌 Federal 🗌 Tribal 🗌 Private (Name: \_\_\_\_\_

## Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	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 Release

Historical impacts discovered during the P&A of the battery. Visual impacts noticed under the oil tanks once they were removed, sampling results to confirmed the presence of impacted soil. Release volume and date are unknown.

Page	2
1 age	4

## **Oil Conservation Division**

Incident ID	NAPP2111048003
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Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
19.13.29.7(A) INMAC!	
🗌 Yes 🔽 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
,	

## **Initial Response**

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

 $\checkmark$  The source of the release has been stopped.

 $\bigvee$  The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 $\checkmark$  All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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	
Printed Name	Onase	OCUIC	

Signature: Chan Settle

Title: Rep Safety & Environmental Sr Date: 04/19/2021

email: Chase\_Settle@eogresources.com

Telephone: 575-748-1471

OCD Only

Ramona Marcus Received by:

Date: 5/9/2021

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;100</u> (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.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- 🔀 Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- $\boxtimes$  Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

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Page 4	Oil Conservation Divisi			District RP Facility ID				
regulations all operators a public health or the envir failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name:	nformation given above is true and complete to are required to report and/or file certain release onment. The acceptance of a C-141 report by stigate and remediate contamination that pose e of a C-141 report does not relieve the operat ase Settle Settle ettle@eogresources.com	e notifications a the OCD does n a threat to grour for of responsibi Title: Date:	nd perform co not relieve the idwater, surfa lity for comp Rep Sa 06/17/202	orrective actions for rele e operator of liability shace water, human health liance with any other fe fety & Environme	eases which may endanger ould their operations have or the environment. In deral, state, or local laws			
OCD Only Received by:		I	Date:					

Received by OCD: 5/18/2022 4:03:49 PM State of New Mexico

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

Oil Conservation Division

	<b>Page 14 of 1</b> .	29
Incident ID	nAPP2111048003	
District RP		
Facility ID		
Application ID		

## **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points  $\boxtimes$ Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Chase Settle Title: Rep Safety & Environmental Sr han Settle Date: 06/17/2021 Signature: Chase Settle@eogresources.com Telephone: 575-748-1471 email: OCD Only Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

# FIGURES

Topographic Map Area Map NMOCD Approved Soil Excavation & Sample Location Map Excavation Area Map Confirmation Sample Location Map Vertical Assessment Test Excavation Location Map





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# TABLES

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

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

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	STATE D SWD #1 nAPP2111048003 EDDY COUNTY, NEW MEXICO												
				All val	ues presente	d 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)	CHLOR
S1-NW	4/13/2022	0-7'	<0.019	<0.039	<0.039	<0.077	<0.08	<3.9	<10	<50	<10	<50	98
S1-EW	4/13/2022	0-7'	<0.017	<0.034	<0.034	<0.068	<0.07	<3.4	<9.7	<48	<9.7	<48	250
S1-WW	4/13/2022	0-7'	<0.021	<0.043	<0.043	<0.086	<0.09	<4.3	<9.6	<48	<9.6	<48	<60
S1-SW	4/13/2022	4'-7'	<0.019	<0.038	<0.038	<0.076	<0.08	<3.8	<9.2	<46	<9.2	<46	100
S2-EW	4/13/2022	0-4'	<0.018	<0.036	<0.036	<0.072	<0.07	<3.6	<9.6	<48	<9.6	<48	<60
S2-EW	4/13/2022	4'	<0.018	<0.036	< 0.036	<0.072	<0.07	<3.0	<9.0	<46	<9.0	<40 <46	<60
S2-WW	4/13/2022	-4'	<0.010	<0.037	<0.037	<0.073	<0.08	<4.1	<9.8	<49	<9.8	<40 <49	220
02	1710/2022												
S3-N	5/9/2022	13'-15'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.6	<48	<9.6	<48	100
S3-EW	4/14/2022	13'	<0.073	<0.15	<0.15	<0.29	<0.29	<15	24	<48	24	24	81
S3-WW	4/19/2022	5'-13'	<del>&lt;0.035</del>	<del>&lt;0.070</del>	<del>&lt;0.070</del>	<del>&lt;0.14</del>	<del>&lt;0.14</del>	<del>&lt;7.0</del>	<del>560</del>	<del>300</del>	<del>560</del>	<del>860</del>	<del>270</del>
S3-W	5/9/2022	13'-15'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	18	<48	18	18	170
		451.071	10.001	.0.047	.0.047	10.004				.50		.50	
S4-N	5/9/2022	15'-27'	< 0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<10	<50	<10	<50	62
S4-EW S4-SW	5/9/2022 5/9/2022	15'-27' 15'-27'	<0.024 <0.024	<0.049 <0.048	<0.049 <0.048	<0.098 <0.096	<0.10 <0.10	<4.9 <4.8	<9.5 <9.7	<48 <48	<9.5 <9.7	<48 <48	180
S4-WWA	5/9/2022	15'-27'	<0.024	<0.048	<0.048	<0.096	<0.10	<24.0	18	<50	18.0	18	190
S4-B	5/9/2022	27'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	82 82	-00 72	82	10 150	92
S4-BA	5/13/2022	27.5'	<0.015	<0.031	<0.031	<0.061	<0.06	<3.1	<10	<50	<10	<50	390
			1	L	L							1 1	
S5-WW	4/19/2022	0'-13'	<del>&lt;0.025</del>	<del>&lt;0.049</del>	<del>&lt;0.049</del>	<del>&lt;0.098</del>	<del>&lt;0.10</del>	<del>&lt;4.9</del>	83	<del>75</del>	83	<del>158</del>	310
S5-WWA	5/9/2022	6.5'-27'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<9.6	<48	69
S5-EW	5/9/2022	6.5'-15'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.6	<48	<9.6	<48	85
S5-B	5/9/2022	15'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.7	<49	<9.7	<49	70
00 14/14/	4/40/0000	41.401	10.045	<del>&lt;0.030</del>	<0.030	<del>&lt;0.060</del>	<0.06	<del>&lt;3.0</del>	<del>120</del>	<del>120</del>	<del>120</del>	<del>240</del>	940
S6-WW S6-WWA	4/19/2022 5/9/2022	1'-12' 6.5'-15'	<del>&lt;0.015</del> <0.025	<0.050	<0.050	<0.099	<0.10	<5.0	38	<50	38	38	210
S6-EW	5/9/2022	6.5'-15'	<0.023	<0.030	<0.030	<0.099	<0.10	<4.8	27	<49	27	27	100
S6-B	5/9/2022	15'	<0.024	<0.046	<0.046	< 0.093	<0.09	<4.6	<9.8	<49	<9.8	<49	64
S7-SW	4/13/2022	0-1'	<0.018	< 0.036	< 0.036	<0.073	<0.07	<3.6	<10	<50	<10	<50	160
S7-EW	4/13/2022	0-2'	<0.020	<0.039	<0.039	<0.079	<0.08	<3.9	<9.4	<47	<9.4	<47	<61
S7-WW	4/14/2022	0-2'	<0.018	<0.036	<0.036	<0.072	<0.07	<3.6	<10	<50	<10	<50	<60
S7-EB	4/13/2022	1'-2'	<0.019	<0.039	<0.039	<0.077	<0.08	<3.9	<9.7	<49	<9.7	<49	340
S7-WB	4/13/2022	1'-2'	<0.020	<0.040	<0.040	<0.080	<0.08	<4.0	<8.9	<45	<8.9	<45	330
	5/0/0000	0.51	10.004	10.040	-0.040	10,000	-0.40			-50	-10	-50	070
EB-N EB-NA	5/9/2022 5/13/2022	6.5' 7'	<0.024 <0.027	<del>&lt;0.048</del> <0.054	<del>&lt;0.048</del> <0.054	<del>&lt;0.096</del> <0.11	<del>&lt;0.10</del> <0.11	<del>&lt;4.8</del> <5.4	<del>&lt;10</del> <10	<del>&lt;50</del> <50	<del>&lt;10</del> <10	<del>&lt;50</del> <50	<del>97(</del> 61(
EB-MA	5/9/2022	6.5'	<0.027	<0.054	<0.054	<0.097	<0.11	<5.4 <4.8	<10	<50	<9.9	<50 <50	84
EB-S	5/9/2022	6.5'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.9	<49	<9.9	<50 <49	<60
WB-N	5/9/2022	6.5'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.8	<49	<9.8	<49	<60
WB-M	5/9/2022	6.5'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	17	54	17.0	70	98
WB-S	5/9/2022	6.5'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.8	<49	<9.8	<49	570
0.12 NMAC Table 1 Closure a Release (		Impacted by	10				50					100	60
19.15.29.13 NMAC Re	-												

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

#### VERTICAL ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA

#### STATE D SWD #1 nAPP2111048003

#### 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
TH-2/33	4/27/2022	33'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.8	<49	<9.8	<49	100
TH-2/37	4/27/2022	37'	<0.025	<0.049	<0.049	<0.099	<0.10	6	30	<48	36	36	75
TH-2/43	4/27/2022	43'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<9.7	<48	<9.7	<48	69
TH-2/45	4/27/2022	45'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.1	<46	<9.1	<46	78
TH-3/31	4/27/2022	31'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	10	<47	10	10	98
TH-3/39	4/27/2022	39'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<9.8	<49	89
TH-3/43	4/27/2022	43'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<9.1	<46	<9.1	<46	86
TH-3/45	4/27/2022	45'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.9	<45	<8.9	<45	63
					•								
TH-4/29	4/27/2022	29'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.6	<48	<9.6	<48	94
TH-4/35	4/27/2022	35'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.5	<43	<8.5	<43	100
TH-4/41	4/27/2022	41'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<8.8	<44	<8.8	<44	110
TH-4/45	4/27/2022	45'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.2	<46	<9.2	<46	120
19.15.29.12 NMAC Table 1 Closure a Release (G		Impacted by	′ 10				50					100	600
19.15.29.13 NMAC Rec (0'-4' Soils			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 – PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPH NO. 1 – A view of the Site during the remediation process. The view is towards the southwest.

Approximate GPS Coordinates: 32.568276, -104.594769



PHOTOGRAPH NO. 2 – A view of the vertical test excavation assessment process on April 27, 2022. The view is towards the southwest.

Approximate GPS Coordinates: 32.568124, -104.594871



PHOTOGRAPH NO. 3 – A view of the completed excavation area. The view is towards the southeast.

Approximate GPS Coordinates: 32.568203, -104.595226



PHOTOGRAPH NO. 4 – An additional view of the completed excavation area. The view is towards the north

Approximate GPS Coordinates: 32.567852, -104.594920



PHOTOGRAPH NO. 5 – A view of the stockpiled material awaiting assessment for potential re-use as backfill material.

Approximate GPS Coordinates: 32.568415, -104.595391

# ATTACHMENT 2 – LABORATORY ANALYTICAL RESULTS



April 20, 2022

Will Kierdorf EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2204720

RE: State D SWD 1

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 11 sample(s) on 4/15/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2204720

Date Reported: 4/20/2022

## Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 EOG
 Client Sample ID: S1-NW

 Project:
 State D SWD 1
 Collection Date: 4/13/2022 10:22:00 AM

 Lab ID:
 2204720-001
 Matrix: MEOH (SOIL)
 Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	98	60	mg/Kg	20	4/15/2022 3:12:18 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/15/2022 4:09:55 PM	66878
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/15/2022 4:09:55 PM	66878
Surr: DNOP	96.5	51.1-141	%Rec	1	4/15/2022 4:09:55 PM	66878
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	4/15/2022 10:46:21 AM	B87295
Surr: BFB	99.4	37.7-212	%Rec	1	4/15/2022 10:46:21 AM	B87295
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	4/15/2022 10:46:21 AM	R87295
Toluene	ND	0.039	mg/Kg	1	4/15/2022 10:46:21 AM	R87295
Ethylbenzene	ND	0.039	mg/Kg	1	4/15/2022 10:46:21 AM	R87295
Xylenes, Total	ND	0.077	mg/Kg	1	4/15/2022 10:46:21 AM	R87295
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	4/15/2022 10:46:21 AM	R87295

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

Qualifiers:

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

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Analytical Report Lab Order 2204720

Date Reported: 4/20/2022

## Hall Environmental Analysis Laboratory, Inc.

 CLIENT: EOG
 Client Sample ID: S1-EW

 Project:
 State D SWD 1
 Collection Date: 4/13/2022 10:27:00 AM

 Lab ID:
 2204720-002
 Matrix: MEOH (SOIL)
 Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	250	60	mg/Kg	20	4/15/2022 3:24:42 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/15/2022 4:20:35 PM	66878
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/15/2022 4:20:35 PM	66878
Surr: DNOP	94.9	51.1-141	%Rec	1	4/15/2022 4:20:35 PM	66878
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	4/15/2022 11:57:11 AM	B87295
Surr: BFB	98.2	37.7-212	%Rec	1	4/15/2022 11:57:11 AM	B87295
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.017	mg/Kg	1	4/15/2022 11:57:11 AM	R87295
Toluene	ND	0.034	mg/Kg	1	4/15/2022 11:57:11 AM	R87295
Ethylbenzene	ND	0.034	mg/Kg	1	4/15/2022 11:57:11 AM	R87295
Xylenes, Total	ND	0.068	mg/Kg	1	4/15/2022 11:57:11 AM	R87295
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	4/15/2022 11:57:11 AM	R87295

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

Qualifiers:

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204720

Date Reported: 4/20/2022

CLIENT	EOG	Client Sample ID: S1-SW
<b>Project:</b>	State D SWD 1	Collection Date: 4/13/2022 10:29:00 AM
Lab ID:	2204720-003	<b>Matrix:</b> MEOH (SOIL) <b>Received Date:</b> 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	100	60	mg/Kg	20	4/15/2022 3:37:06 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	4/15/2022 4:31:15 PM	66878
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/15/2022 4:31:15 PM	66878
Surr: DNOP	87.6	51.1-141	%Rec	1	4/15/2022 4:31:15 PM	66878
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	4/15/2022 1:07:54 PM	B87295
Surr: BFB	101	37.7-212	%Rec	1	4/15/2022 1:07:54 PM	B87295
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	4/15/2022 1:07:54 PM	R87295
Toluene	ND	0.038	mg/Kg	1	4/15/2022 1:07:54 PM	R87295
Ethylbenzene	ND	0.038	mg/Kg	1	4/15/2022 1:07:54 PM	R87295
Xylenes, Total	ND	0.076	mg/Kg	1	4/15/2022 1:07:54 PM	R87295
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	4/15/2022 1:07:54 PM	R87295

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

Qualifiers:

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204720

Date F	Reported:	4/2	0/2022	2
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CLIENT:	EOG	Client Sample ID: S1-WW
Project:	State D SWD 1	Collection Date: 4/13/2022 10:32:00 AM
Lab ID:	2204720-004	Matrix: MEOH (SOIL) Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	ND	60	mg/Kg	20	4/15/2022 3:49:30 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/15/2022 4:41:54 PM	66878
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/15/2022 4:41:54 PM	66878
Surr: DNOP	96.6	51.1-141	%Rec	1	4/15/2022 4:41:54 PM	66878
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	4/15/2022 1:31:21 PM	B87295
Surr: BFB	102	37.7-212	%Rec	1	4/15/2022 1:31:21 PM	B87295
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.021	mg/Kg	1	4/15/2022 1:31:21 PM	R87295
Toluene	ND	0.043	mg/Kg	1	4/15/2022 1:31:21 PM	R87295
Ethylbenzene	ND	0.043	mg/Kg	1	4/15/2022 1:31:21 PM	R87295
Xylenes, Total	ND	0.086	mg/Kg	1	4/15/2022 1:31:21 PM	R87295
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	4/15/2022 1:31:21 PM	R87295

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

Qualifiers:

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204720

Date Reported: 4/20/2022

CLIENT:	EOG	Client Sample ID: S2-EW
<b>Project:</b>	State D SWD 1	Collection Date: 4/13/2022 10:39:00 AM
Lab ID:	2204720-005	Matrix: MEOH (SOIL) Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	ND	60	mg/Kg	20	4/15/2022 4:26:43 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/15/2022 4:52:35 PM	66878
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/15/2022 4:52:35 PM	66878
Surr: DNOP	96.9	51.1-141	%Rec	1	4/15/2022 4:52:35 PM	66878
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	4/15/2022 1:55:04 PM	B87295
Surr: BFB	99.6	37.7-212	%Rec	1	4/15/2022 1:55:04 PM	B87295
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.018	mg/Kg	1	4/15/2022 1:55:04 PM	R87295
Toluene	ND	0.036	mg/Kg	1	4/15/2022 1:55:04 PM	R87295
Ethylbenzene	ND	0.036	mg/Kg	1	4/15/2022 1:55:04 PM	R87295
Xylenes, Total	ND	0.072	mg/Kg	1	4/15/2022 1:55:04 PM	R87295
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	4/15/2022 1:55:04 PM	R87295

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

Qualifiers:

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204720

Date Reported: 4/20/2022

CLIENT: EOG		Client Sample ID: S2-B
Project:	State D SWD 1	Collection Date: 4/13/2022 10:42:00 AM
Lab ID:	2204720-006	Matrix: MEOH (SOIL) Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	ND	60	mg/Kg	20	4/15/2022 4:39:07 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	4/15/2022 5:03:13 PM	66878
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/15/2022 5:03:13 PM	66878
Surr: DNOP	104	51.1-141	%Rec	1	4/15/2022 5:03:13 PM	66878
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	4/15/2022 2:18:32 PM	B87295
Surr: BFB	100	37.7-212	%Rec	1	4/15/2022 2:18:32 PM	B87295
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.018	mg/Kg	1	4/15/2022 2:18:32 PM	R87295
Toluene	ND	0.037	mg/Kg	1	4/15/2022 2:18:32 PM	R87295
Ethylbenzene	ND	0.037	mg/Kg	1	4/15/2022 2:18:32 PM	R87295
Xylenes, Total	ND	0.073	mg/Kg	1	4/15/2022 2:18:32 PM	R87295
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	4/15/2022 2:18:32 PM	R87295

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

Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204720

Date Reported: 4/20/2022

CLIENT	EOG	Client Sample ID: S2-WW
Project:	State D SWD 1	Collection Date: 4/13/2022 3:11:00 PM
Lab ID:	2204720-007	Matrix: MEOH (SOIL) Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	220	60	mg/Kg	20	4/15/2022 4:51:32 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/15/2022 5:13:50 PM	66878
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/15/2022 5:13:50 PM	66878
Surr: DNOP	96.7	51.1-141	%Rec	1	4/15/2022 5:13:50 PM	66878
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	4/15/2022 2:41:59 PM	B87295
Surr: BFB	98.6	37.7-212	%Rec	1	4/15/2022 2:41:59 PM	B87295
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.021	mg/Kg	1	4/15/2022 2:41:59 PM	R87295
Toluene	ND	0.041	mg/Kg	1	4/15/2022 2:41:59 PM	R87295
Ethylbenzene	ND	0.041	mg/Kg	1	4/15/2022 2:41:59 PM	R87295
Xylenes, Total	ND	0.083	mg/Kg	1	4/15/2022 2:41:59 PM	R87295
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	4/15/2022 2:41:59 PM	R87295

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2204720

Date Reported: 4/20/2022

### Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 EOG
 Client Sample ID: S7-EW

 Project:
 State D SWD 1
 Collection Date: 4/13/2022 3:30:00 PM

 Lab ID:
 2204720-008
 Matrix: MEOH (SOIL)
 Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	ND	61	mg/Kg	20	4/15/2022 5:03:56 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/15/2022 5:24:25 PM	66878
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/15/2022 5:24:25 PM	66878
Surr: DNOP	99.2	51.1-141	%Rec	1	4/15/2022 5:24:25 PM	66878
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	4/15/2022 3:05:22 PM	B87295
Surr: BFB	100	37.7-212	%Rec	1	4/15/2022 3:05:22 PM	B87295
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.020	mg/Kg	1	4/15/2022 3:05:22 PM	R87295
Toluene	ND	0.039	mg/Kg	1	4/15/2022 3:05:22 PM	R87295
Ethylbenzene	ND	0.039	mg/Kg	1	4/15/2022 3:05:22 PM	R87295
Xylenes, Total	ND	0.079	mg/Kg	1	4/15/2022 3:05:22 PM	R87295
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	4/15/2022 3:05:22 PM	R87295

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

Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204720

Date Reported: 4/20/2022

CLIENT:	EOG	Client Sample ID: S7-EB
Project:	State D SWD 1	Collection Date: 4/13/2022 3:34:00 PM
Lab ID:	2204720-009	Matrix: MEOH (SOIL) Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LRN
Chloride	340	60	mg/Kg	20	4/15/2022 5:16:20 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE OF	GANICS				Analys	t: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/15/2022 5:35:02 PM	66878
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/15/2022 5:35:02 PM	66878
Surr: DNOP	98.0	51.1-141	%Rec	1	4/15/2022 5:35:02 PM	66878
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	4/15/2022 4:39:15 PM	B87295
Surr: BFB	103	37.7-212	%Rec	1	4/15/2022 4:39:15 PM	B87295
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.019	mg/Kg	1	4/15/2022 4:39:15 PM	R87295
Toluene	ND	0.039	mg/Kg	1	4/15/2022 4:39:15 PM	R87295
Ethylbenzene	ND	0.039	mg/Kg	1	4/15/2022 4:39:15 PM	R87295
Xylenes, Total	ND	0.077	mg/Kg	1	4/15/2022 4:39:15 PM	R87295
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	4/15/2022 4:39:15 PM	R87295

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204720

Date Reported: 4/20/2022

CLIENT	EOG	Client Sample ID: S7-SW
<b>Project:</b>	State D SWD 1	Collection Date: 4/13/2022 3:39:00 PM
Lab ID:	2204720-010	Matrix: MEOH (SOIL) Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LRN
Chloride	160	60	mg/Kg	20	4/15/2022 5:28:45 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/15/2022 5:45:43 PM	66878
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/15/2022 5:45:43 PM	66878
Surr: DNOP	92.4	51.1-141	%Rec	1	4/15/2022 5:45:43 PM	66878
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	4/15/2022 5:02:39 PM	B87295
Surr: BFB	99.8	37.7-212	%Rec	1	4/15/2022 5:02:39 PM	B87295
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.018	mg/Kg	1	4/15/2022 5:02:39 PM	R87295
Toluene	ND	0.036	mg/Kg	1	4/15/2022 5:02:39 PM	R87295
Ethylbenzene	ND	0.036	mg/Kg	1	4/15/2022 5:02:39 PM	R87295
Xylenes, Total	ND	0.073	mg/Kg	1	4/15/2022 5:02:39 PM	R87295
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	4/15/2022 5:02:39 PM	R87295

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2204720

### Hall Environmental Analysis Laboratory, Inc.

C. Date Reported: 4/20/2022

CLIENT	: EOG	Client Sample ID: S7-WB
<b>Project:</b>	State D SWD 1	Collection Date: 4/13/2022 3:43:00 PM
Lab ID:	2204720-011	<b>Matrix:</b> MEOH (SOIL) <b>Received Date:</b> 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	330	60	mg/Kg	20	4/15/2022 5:41:09 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	4/15/2022 5:56:28 PM	66878
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	4/15/2022 5:56:28 PM	66878
Surr: DNOP	99.2	51.1-141	%Rec	1	4/15/2022 5:56:28 PM	66878
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	4/15/2022 5:26:02 PM	B87295
Surr: BFB	98.6	37.7-212	%Rec	1	4/15/2022 5:26:02 PM	B87295
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.020	mg/Kg	1	4/15/2022 5:26:02 PM	R87295
Toluene	ND	0.040	mg/Kg	1	4/15/2022 5:26:02 PM	R87295
Ethylbenzene	ND	0.040	mg/Kg	1	4/15/2022 5:26:02 PM	R87295
Xylenes, Total	ND	0.080	mg/Kg	1	4/15/2022 5:26:02 PM	R87295
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	4/15/2022 5:26:02 PM	R87295

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

Qualifiers:

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

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L.	onmental Analysis Laboratory, Inc.	WO#:	2204720 20-Apr-22
Client: Project:	EOG State D SWD 1		

Sample ID: MB-66883	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 66883	RunNo: 87282		
Prep Date: 4/15/2022	Analysis Date: 4/15/2022	SeqNo: 3087147	Units: mg/Kg	
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-66883	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Sample ID: LCS-66883 Client ID: LCSS	SampType: Ics Batch ID: 66883	TestCode: EPA Method RunNo: 87282	300.0: Anions	
			300.0: Anions Units: mg/Kg	
Client ID: LCSS	Batch ID: 66883	RunNo: <b>87282</b> SeqNo: <b>3087148</b>		RPDLimit Qual

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

## **OC SUMMARY REPORT**

Hall Environment	tal Analysis Laboratory, Inc.	20-Apr-2
Client: EOG Project: State D	SWD 1	
Sample ID: LCS-66857	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 66857 RunNo: 87285	
Prep Date: 4/14/2022	Analysis Date: 4/15/2022 SeqNo: 3086642 Units: %Rec	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP	5.6 5.000 112 51.1 141	
Sample ID: LCS-66878	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 66878 RunNo: 87285	
Prep Date: 4/15/2022	Analysis Date: 4/15/2022 SeqNo: 3086643 Units: mg/Kg	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	46 10 50.00 0 91.6 68.9 135	
Surr: DNOP	4.1 5.000 81.8 51.1 141	
Sample ID: MB-66857	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 66857 RunNo: 87285	
Prep Date: 4/14/2022	Analysis Date: 4/15/2022 SeqNo: 3086644 Units: %Rec	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP	15 10.00 151 51.1 141	S
Sample ID: MB-66878	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 66878 RunNo: 87307	
Prep Date: 4/15/2022	Analysis Date: 4/18/2022 SeqNo: 3087519 Units: mg/Kg	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	8.5 10.00 84.7 51.1 141	
Sample ID: MB-66907	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 66907 RunNo: 87307	
Prep Date: 4/18/2022	Analysis Date: 4/18/2022 SeqNo: 3088643 Units: %Rec	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP	7.9 10.00 79.2 51.1 141	
Sample ID: LCS-66907	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 66907 RunNo: 87307	
Prep Date: 4/18/2022	Analysis Date: 4/18/2022 SeqNo: 3088645 Units: %Rec	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP	3.6 5.000 71.4 51.1 141	

### Qualifiers:

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

QC SUMN Hall Enviro					ory, Inc.					WO#:	220472 20-Apr-2
Client: Project:	EOG State D S	SWD 1									
Sample ID: mb		SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS		Batch	n ID: <b>B8</b>	37295	F	RunNo: <b>8</b>	7295				
Prep Date:		Analysis D	ate: 4	/15/2022	S	SeqNo: 3	086879	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organio Surr: BFB	cs (GRO)	ND 1000	5.0	1000		102	37.7	212			
Sample ID: 2.5ug	gro Ics	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS		Batch	n ID: <b>B8</b>	37295	F	RunNo: <b>8</b>	7295				
Prep Date:		Analysis D	ate: 4	/15/2022	S	SeqNo: 3	086880	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organio	cs (GRO)	26	5.0	25.00	0	105	72.3	137			
Surr: BFB		2100		1000		210	37.7	212			
Sample ID: mb-66	851	SampT	уре: МІ	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS		Batch	n ID: 66	851	F	RunNo: <b>8</b>	7295				
Prep Date: 4/14/2	2022	Analysis D	ate: 4	/15/2022	S	SeqNo: 3	086896	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		1000		103	37.7	212			
Sample ID: Ics-668	851	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS		Batch	n ID: 66	851	F	RunNo: 8	7295				
Prep Date: 4/14/2	2022	Analysis D	ate: 4	/15/2022	S	SeqNo: 3	086897	Units: %Red	•		

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 2100 1000 210 37.7 212

**Qualifiers:** 

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

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AIMAKY KEPUKI	WO#:	2204720
ironmental Analysis Laboratory, Inc.		20-Apr-22

	EOG State D SWD 1									
Sample ID: mb	Samp	SampType: MBLK			tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Bate	ch ID: <b>R8</b>	7295	F	RunNo: 87	7295				
Prep Date:	Analysis	Date: 4/	15/2022	5	SeqNo: 30	086928	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-Bromofluorobenz	ene 1.0		1.000		102	70	130			
Sample ID: 100ng bt	ex lcs Samp	SampType: LCS TestCode: EPA Meth			PA Method	8021B: Volat	iles			
Client ID: LCSS	Bate	Batch ID: R87295		F	RunNo: <b>87295</b>					
Prep Date:	Analysis	Date: 4/	15/2022	S	SeqNo: 30	086929	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.2	80	120			
Toluene	0.94	0.050	1.000	0	93.6	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.1	80	120			
Surr: 4-Bromofluorobenz	ene 1.0		1.000		105	70	130			
Sample ID: mb-6685	1 Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Bate	ch ID: 66	851	F	RunNo: 87	7295				
Prep Date: 4/14/202	22 Analysis	Date: 4/	15/2022	S	SeqNo: 30	086943	Units: %Rec	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenz	ene 1.0		1.000		103	70	130			
Sample ID: LCS-668	51 Samp	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Bate	ch ID: 66	851	F	RunNo: 87	7295				
Prep Date: 4/14/202	22 Analysis	Date: 4/	15/2022	S	SeqNo: 30	086944	Units: %Rec	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenz	ene 1.0		1.000		104	70	130			

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

RL Reporting Limit Page 15 of 15

ENVIRONMENTA ANALYSIS LABORATORY	L TEL: 505-34	umental Analysis Labor 4901 Hawkin Albuquerque, NM 8 5-3975 FAX: 505-345- vww.hallenvironmental	ns NE 17109 Sam 1107	Page
Client Name: EOG	Work Order N	umber: 2204720		RcptNo: 1
Received By: Sean Living	gston 4/15/2022 8:00:	MA 00	Sala	30/
Completed By: Sean Living Reviewed By: 4-15-		01 AM	S-Li S-Li	jot-
Chain of Custody				
1. Is Chain of Custody complet	te?	Yes 🔽	No 🗌	Not Present
2. How was the sample deliver	ed?	Courier		
Log In 3. Was an attempt made to coo	ol the samples?	Yes 🗸	No 🗌	
4. Were all samples received a	t a temperature of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗌
5. Sample(s) in proper containe	er(s)?	Yes 🔽	No 🗌	
6. Sufficient sample volume for	indicated test(s)?	Yes 🔽	No 🗌	
7. Are samples (except VOA an		Yes 🗹	No 🗌	
8. Was preservative added to be		Yes	No 🔽	NA 🗌
9. Received at least 1 vial with h	headspace $<1/4$ " for AO VOA2	Yes	No 🗌	NA 🗹
0. Were any sample containers		Yes	No 🗹 🗆	
1. Does paperwork match bottle (Note discrepancies on chain	labels?	Yes 🔽		# of preserved bottles checked for pH:
2. Are matrices correctly identified		Yes 🔽	No 🗌	(<2 or >12 unless noted) Adjusted?
3. Is it clear what analyses were		Yes 🔽		
4. Were all holding times able to (If no, notify customer for auth	be met?	Yes 🗹	No 🗆	Checked by: gr. 4/15/2
pecial Handling (if appli	cable)			
5. Was client notified of all disc	repancies with this order?	Yes	No 🗌	NA 🔽
Person Notified: By Whom: Regarding: Client Instructions:	Da Via	1	none 🗌 Fax [	In Person
16. Additional remarks:				
	Condition Seal Intact Seal No	Seal Date	Signed By	
	Condition Seal Intact Seal No ood	Seal Date	Signed By	

Page 1 of 1

### Received by OCD: 5/18/2022 4:03:49 PM

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request					Date:       Time:       Relinquished by:       Received by:       Via:       Date       Time       Remarks: Bill to EOG Artesia         V/15/3A       16.00       16.00       17.32       11.00       10.00       10.00         Date:       Time:       Relinquished by:       103.00       11.32       11.00       10.00         V/14/2       103.00       Mu/10.10       Mu/10.100       Mu/10.100       Mu/10.100         In necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laborationes. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repole         Mu/10.130       Mu/10.130       Sub-contracted data will be clearly notated on the analytical repole
4901 H	ТРН:8015D(GRO / DRO / MRO) Сhloride (EPA 300)	x			arks: Bill t
	BTEX (8021)	×			this possit
KRush 244a Rush Are D Swo 41	4/14 Marter No HEAL No. 2204 720	100	200 201 201 202	その 200 1,0 1,0 1,0	an Date Time 4/322 1(00 Date Time MM2 1080 Miles. This serves as notice of U(15/22 8:00
Time: Хла : Sra re 75	anager: W. Kier <u>+//3</u> <u>iv. <i>LLT É K</i> 0 のステ/ 山子 es rfs:   mp(including CF): う Preservative # Type</u>	ILE			Via: Person Via: UUV
Turn-Around Time: ☐ Standard Kus Project Name: <i>Sra re</i> Ø Project #: 5375		1 × 402 JAR			Received by: Via: Received by: Via: Received by: Via: CULULUL contracted to other accredite
Client: EOG-Artesia / Ranger Env. 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	gerEnv.	SI-NW SI-EW SI-CW	51-500 51-WW 52-EU 52-B	52-WU 57-EU 57-E8 57-WB 57-WB	d by:
-of-CL esia / Rai 20G - 105 01179, A	Mill@Rang Daz Cor Dather Excel	Solu		1	Relinquished by: Relinquished by: Relinquished by: Relinquished to Relinquished to Samples submitted to
Client: EOG-Artesia / R Client: EOG-Artesia / R Mailing Address: EOG - 10 Ranger: PO Box 201179, Phone #: 521-335-1785	Package: dard dard (Type)_ Time	1027 1027	1031 1033 1039 1039	3- + + 0 -	Time: R 1500 1 1030 1 1030 1 1980 1
Client:   Mailing / Ranger:	CAVOC Package: CAVOC Package: Candard Accreditation: Accreditation: CType) CType	115/32			Unate: Time: 4/15/33 1500 Date: Time: 4/14/22 1030



April 20, 2022

Will Kierdorf EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2204722

RE: State D SWD 1

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/15/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order **2204722** Date Reported: **4/20/2022** 

CLIENT:	EOG	Client Sample ID: S7-WW
<b>Project:</b>	State D SWD 1	Collection Date: 4/14/2022 8:46:00 AM
Lab ID:	2204722-001	<b>Matrix:</b> MEOH (SOIL) <b>Received Date:</b> 4/15/2022 8:00:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	ND	60	mg/Kg	20	4/15/2022 5:53:33 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/15/2022 6:07:16 PM	66878
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/15/2022 6:07:16 PM	66878
Surr: DNOP	102	51.1-141	%Rec	1	4/15/2022 6:07:16 PM	66878
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	4/15/2022 5:49:19 PM	B87295
Surr: BFB	101	37.7-212	%Rec	1	4/15/2022 5:49:19 PM	B87295
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.018	mg/Kg	1	4/15/2022 5:49:19 PM	R87295
Toluene	ND	0.036	mg/Kg	1	4/15/2022 5:49:19 PM	R87295
Ethylbenzene	ND	0.036	mg/Kg	1	4/15/2022 5:49:19 PM	R87295
Xylenes, Total	ND	0.072	mg/Kg	1	4/15/2022 5:49:19 PM	R87295
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	4/15/2022 5:49:19 PM	R87295

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

Qualifiers:

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

Page 1 of 6

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204722

Date Reported: 4/20/2022

CLIENT: EOG		Client Sample ID: S3-EW
<b>Project:</b>	State D SWD 1	Collection Date: 4/14/2022 9:49:00 AM
Lab ID:	2204722-002	Matrix: MEOH (SOIL) Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	81	60	mg/Kg	20	4/15/2022 6:05:57 PM	66883
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	SB
Diesel Range Organics (DRO)	24	9.6	mg/Kg	1	4/15/2022 6:18:05 PM	66878
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/15/2022 6:18:05 PM	66878
Surr: DNOP	89.9	51.1-141	%Rec	1	4/15/2022 6:18:05 PM	66878
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	15	mg/Kg	5	4/15/2022 6:12:43 PM	B87295
Surr: BFB	102	37.7-212	%Rec	5	4/15/2022 6:12:43 PM	B87295
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.073	mg/Kg	5	4/15/2022 6:12:43 PM	R87295
Toluene	ND	0.15	mg/Kg	5	4/15/2022 6:12:43 PM	R87295
Ethylbenzene	ND	0.15	mg/Kg	5	4/15/2022 6:12:43 PM	R87295
Xylenes, Total	ND	0.29	mg/Kg	5	4/15/2022 6:12:43 PM	R87295
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	5	4/15/2022 6:12:43 PM	R87295

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

Qualifiers:

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

Page 2 of 6

L	ironmental Analysis Laboratory, Inc.	WO#:	2204722 20-Apr-22
Client:	EOG		
Project:	State D SWD 1		

Tojeci. State D						
Sample ID: MB-66883	SampType: <b>mblk</b>	TestCode: EPA Method	TestCode: EPA Method 300.0: Anions			
Client ID: PBS	Batch ID: 66883	RunNo: 87282				
Prep Date: 4/15/2022	Analysis Date: 4/15/2022	SeqNo: 3087147	Units: mg/Kg			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Chloride	ND 1.5					
Sample ID: LCS-66883	SampType: Ics	TestCode: EPA Method	300.0: Anions			
Client ID: LCSS	Batch ID: 66883	RunNo: 87282				
Prep Date: 4/15/2022	Analysis Date: 4/15/2022	SeqNo: 3087148	Units: mg/Kg			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Chloride	14 1.5 15.00	0 90.5 90	110			

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

Page 3 of 6

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# **OC SUMMARY REPORT**

al Analysis Laboratory, Inc.	: 220472 20-Apr-22
SWD 1	
SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	
Batch ID: 66857 RunNo: 87285	
Analysis Date: 4/15/2022 SeqNo: 3086642 Units: %Rec	
Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimi	Qual
5.6         5.000         112         51.1         141	444
SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	
Batch ID: 66878 RunNo: 87285	
Analysis Date: 4/15/2022 SeqNo: 3086643 Units: mg/Kg	
Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimi	Qual
46 10 50.00 0 91.6 68.9 135	
4.1 5.000 81.8 51.1 141	
SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics	
Batch ID: 66857 RunNo: 87285	
Analysis Date: 4/15/2022 SeqNo: 3086644 Units: %Rec	
Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimi	Qual
15 10.00 151 51.1 141	S
SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics	
Batch ID: 66878 RunNo: 87307	
Analysis Date: 4/18/2022 SeqNo: 3087519 Units: mg/Kg	
Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimi	Qual
ND 10	
ND 50	
8.5 10.00 84.7 51.1 141	
SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics	
Batch ID: 66907 RunNo: 87307	
Analysis Date: 4/18/2022 SeqNo: 3088643 Units: %Rec	
Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimi	Qual
7.9 10.00 79.2 51.1 141	
SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	
Batch ID: 66907 RunNo: 87307	
Analysis Date: 4/18/2022 SeqNo: 3088645 Units: %Rec	
	WUFF         SWD 1         SWD 1         SWD 1         SampType: LCS       TestCode: EPA Method 8015M/D: Diesel Range Organics         Batch ID: 66857       RunNo: 87285         Analysis Date: 4/15/2022       SeqNo: 3086642       Units: %Rec         Result PQL SPK value SPK Ref Val %REC       LowLimit HighLimit %RPD RPDLimit         SampType: LCS       TestCode: EPA Method 8015M/D: Diesel Range Organics         Batch ID: 66878       RunNo: 87285         Analysis Date: 4/15/2022       SeqNo: 3086643       Units: mg/Kg         Result PQL SPK value SPK Ref Val %REC       LowLimit HighLimit %RPD RPDLimit         Add 10       50.00       0         SeqNo: 3086644       Units: mg/Kg         Result PQL SPK value SPK Ref Val %REC       LowLimit HighLimit %RPD RPDLimit         SampType: MBLK       TestCode: EPA Method 8015M/D: Diesel Range Organics         Batch ID: 66878       RunNo: 87307         Analysis Date: 4/15/2022       SeqNo: 3087519       Units: mg/Kg

Surr: DNOP

Qualifiers:

Value exceeds Maximum Contaminant Level. \*

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

3.6

В Analyte detected in the associated Method Blank

71.4

51.1

141

Е Estimated value

5.000

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 4 of 6

**Client:** 

## QC SUMMARY REPORT Hall **F**

		WO#:	2204722
Env	vironmental Analysis Laboratory, Inc.		20-Apr-22
	EOG		

Project: State D S	SWD 1								
Sample ID: mb	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: B87	295	F	tunNo: 8	7295				
Prep Date:	Analysis Date: 4/1	5/2022	S	eqNo: 3	086879	Units: mg/Kg	9		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 1000	1000		102	37.7	212			
Sample ID: 2.5ug gro Ics     SampType: LCS     TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	F	unNo: 8	7295						
Prep Date:	Analysis Date: 4/1	5/2022	S	eqNo: 3	086880	Units: mg/Kg	9		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26 5.0	25.00	0	105	72.3	137			
Surr: BFB	2100	1000		210	37.7	212			
Sample ID: mb-66851	SampType: MBL	_K	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: PBS	Batch ID: 668	51	F	unNo: 8	7295				
Prep Date: 4/14/2022	Analysis Date: 4/1	5/2022	S	eqNo: 3	086896	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000	1000		103	37.7	212			
Sample ID: Ics-66851	SampType: LCS	;	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	9	
Client ID: LCSS	Batch ID: 668	51	F	unNo: 8	7295				
Prep Date: 4/14/2022	Analysis Date: 4/1	5/2022	S	eqNo: 3	086897	Units: %Rec			
Analyte			SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2100	1000		210	37.7	212			

### **Qualifiers:**

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

AKI KEPUKI	WO#:	2204722	
nental Analysis Laboratory, Inc.		20-Apr-22	

	EOG										
Project:	State D SWD	1									
Sample ID: mb SampType: MBLK					TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS Batch ID: R87295			R	RunNo: <b>87295</b>							
Prep Date: Analysis Date: 4/15/2022			SeqNo: 3086928			Units: mg/Kg					
Analyte	Re	sult P	QL SI	PK 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 (	).10								
Surr: 4-Bromofluorober	nzene	1.0		1.000		102	70	130			
Sample ID: 100ng k	otex lcs S	SampType	LCS		Tes	Code: EF	PA Method	8021B: Volati	les		
Client ID: LCSS		Batch ID:	R8729	95	RunNo: <b>87295</b>						
Prep Date:	Anal	ysis Date:	4/15/	2022	S	eqNo: 30	086929	Units: mg/Kg	9		
Analyte	Re	sult P	QL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0	.89 0.	025	1.000	0	89.2	80	120			
Toluene	0	.94 0.	050	1.000	0	93.6	80	120			
Ethylbenzene	0	.95 0.	050	1.000	0	95.4	80	120			
Xylenes, Total		2.9 (	0.10	3.000	0	95.1	80	120			
Surr: 4-Bromofluorober	nzene	1.0		1.000		105	70	130			
Sample ID: mb-668	<b>51</b> S	SampType	MBLK	<	Tes	Code: EF	PA Method	8021B: Volati	les		
Client ID: PBS		Batch ID	66851	I	R	unNo: 87	7295				
Prep Date: 4/14/2	022 Anal	ysis Date:	4/15/	2022	S	eqNo: 30	086943	Units: %Rec			
Analyte	Re	sult P	QL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorober	nzene	1.0		1.000		103	70	130			
Sample ID: LCS-66	<b>851</b> S	SampType	LCS		Tes	Code: EF	PA Method	8021B: Volati	les		
Client ID: LCSS		Batch ID	66851	I	R	unNo: 87	7295				
Prep Date: 4/14/2	022 Anal	ysis Date:	4/15/	2022	S	eqNo: 30	086944	Units: %Rec			
Analyte	Re	sult P	QL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorober	nzene	1.0		1.000		104	70	130			

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

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 6

	18/2022 4:03:49 PM ONMENTAL YSIS RATORY	TEL: 505-345-3	ntal Analysis Labora 4901 Hawkin: Albuquerque, NM 83 975 FAX: 505-345-4 v.hallenvironmental.	s NE 7109 San 4107	nple Log-In Ch	Page 55 og eck List
Client Name:	EOG	Work Order Num	ber: 2204722		RcptNo: 1	
Received By:	Sean Livingston	4/15/2022 8:00:00	АМ	S-L	zot	
Completed By: Reviewed By:	Sean Livingston J4 4-15-22	4/15/2022 8:29:18	АМ	5-L. 5-L	John	
Chain of Cus	tody					
1. Is Chain of Cu	ustody complete?		Yes 🖌	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In 3. Was an attem	pt made to cool the samples?		Yes 🗹	No 🗌		
4. Were all samp	les received at a temperature	of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗌	
5. Sample(s) in p	proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sam	ole volume for indicated test(s	)?	Yes 🔽	No 🗌		
7. Are samples (e	except VOA and ONG) proper	y preserved?	Yes 🔽	No 🗌		
8. Was preservat	ive added to bottles?		Yes	No 🔽	NA 🗌	
9. Received at lea	ast 1 vial with headspace <1/4	" for AQ VOA?	Yes	No 🗌	NA 🔽	
10. Were any sam	ple containers received broke	n?	Yes	No 🗹	# of preserved	
	k match bottle labels? ncies on chain of custody)		Yes 🔽	No 🗆	bottles checked for pH: (<2 or >1	2 unless noted)
12. Are matrices co	prrectly identified on Chain of	Custody?	Yes 🔽	No 🗌	Adjusted?	
13. Is it clear what	analyses were requested?		Yes 🔽	No 🗌		
	g times able to be met? stomer for authorization.)		Yes 🗹	No 🗆	Checked by:	n = 15/2
Special Handli	ng (if applicable)					
15. Was client not	ified of all discrepancies with t	his order?	Yes 🗌	No 🗌	NA 🔽	
Person M	Notified:	Date:				
By Whor Regardir	ig:	Via:	🗌 eMail 🔄 Pr	none 🗌 Fax	In Person	
	structions:		and a second second second		en e	
16. Additional rem	narks:					
17. <u>Cooler Inform</u> Cooler No	1	al Intact Seal No	Seal Date	Signed By		

Chain-of-Custody Record	Turn-Around Time:			Rec
Client: EOG-Artesia / Ranger Env.	□ Standard ⊠ Rush 2 <sup>4</sup> h our Rus		-	eived
	Project Name:			by O
Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210		AQ01 Hawkins	00120	CD:
Ranger: PO Box 201179, Austin TX 78720	Project #: 5375	Tel 505-345-3075		5/18
Phone #: 521-335-1785			Analysis Request	3/202
email or Fax#: Will@RangerEnv.com	Project Manager: W. Kierdorf	(0		22 4.
QA/QC Package:		ЛЯС		:03:
Standard      Level 4 (Full Validation)		1/0	49 F	49 I
Accreditation:  Accreditation:  Accreditation:  Accompliance	Sampler: Robert Martin On Ice: Twos DND	00) אם ו כ	- <u></u>	PM
EDD (Type) Excel	olers:	้ยย		
	(including CF): SC to 1 = S.	)DS		
Time Matrice	Preservative HE/	3) X3 <sup>-</sup> 108:H 10ride		
	1 ype 22.04 +	T8 >		
1.05 0100	1402 Jar 1 FP	XXX		
- OYYY SOUL S3-EW	700 7 1	X X X X X		
Date: Time: Relinquished by:	Received by: Via: Date Time	Remarks: Bill to EOG Artesia	Artesia	
Relinquis			Pa	Pa
"What goo accum	Sec count 4/15/22 8:00	0		ge 56
If necessary, samples submitted to Hall Envronmental may be sub	f necessary, samples submitted to Hall EnWronmental 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.	of this possibility. Any sub-contracted		of 129



April 26, 2022

Will Kierdorf EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: State D SWD 1

OrderNo.: 2204920

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/21/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204920

Date Reported: 4/26/2022

CLIENT:	: EOG	Client Sample ID: S5-WW
Project:	State D SWD 1	Collection Date: 4/19/2022 10:03:00 AM
Lab ID:	2204920-001	<b>Matrix:</b> MEOH (SOIL) <b>Received Date:</b> 4/21/2022 7:40:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	310	60	mg/Kg	20	4/21/2022 7:45:29 PM	67001
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	ED
Diesel Range Organics (DRO)	83	10	mg/Kg	1	4/21/2022 11:05:04 AM	66978
Motor Oil Range Organics (MRO)	75	50	mg/Kg	1	4/21/2022 11:05:04 AM	66978
Surr: DNOP	86.0	51.1-141	%Rec	1	4/21/2022 11:05:04 AM	66978
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/21/2022 9:47:16 AM	G87428
Surr: BFB	94.9	37.7-212	%Rec	1	4/21/2022 9:47:16 AM	G87428
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	4/21/2022 9:47:16 AM	B87428
Toluene	ND	0.049	mg/Kg	1	4/21/2022 9:47:16 AM	B87428
Ethylbenzene	ND	0.049	mg/Kg	1	4/21/2022 9:47:16 AM	B87428
Xylenes, Total	ND	0.098	mg/Kg	1	4/21/2022 9:47:16 AM	B87428
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	1	4/21/2022 9:47:16 AM	B87428

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204920

Date Reported: 4/26/2022

CLIENT	: EOG	Client Sample ID: S6-WW
<b>Project:</b>	State D SWD 1	Collection Date: 4/19/2022 10:05:00 AM
Lab ID:	2204920-002	Matrix: MEOH (SOIL) Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	t: JMT
Chloride	940	61	mg/Kg	20	4/21/2022 7:57:49 PM	67001
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst	t: ED
Diesel Range Organics (DRO)	120	9.5	mg/Kg	1	4/21/2022 11:36:45 AM	66978
Motor Oil Range Organics (MRO)	120	47	mg/Kg	1	4/21/2022 11:36:45 AM	66978
Surr: DNOP	90.7	51.1-141	%Rec	1	4/21/2022 11:36:45 AM	66978
EPA METHOD 8015D: GASOLINE RANGE					Analyst	t: NSB
Gasoline Range Organics (GRO)	ND	3.0	mg/Kg	1	4/21/2022 10:10:41 AM	G87428
Surr: BFB	93.2	37.7-212	%Rec	1	4/21/2022 10:10:41 AM	G87428
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	0.015	mg/Kg	1	4/21/2022 10:10:41 AM	B87428
Toluene	ND	0.030	mg/Kg	1	4/21/2022 10:10:41 AM	B87428
Ethylbenzene	ND	0.030	mg/Kg	1	4/21/2022 10:10:41 AM	B87428
Xylenes, Total	ND	0.060	mg/Kg	1	4/21/2022 10:10:41 AM	B87428
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	4/21/2022 10:10:41 AM	B87428

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

Page 2 of 7

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204920

Date Reported: 4/26/2022

CLIENT	: EOG	Client Sample ID: S3-WW
<b>Project:</b>	State D SWD 1	Collection Date: 4/19/2022 10:00:00 AM
Lab ID:	2204920-003	Matrix: MEOH (SOIL) Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	270	60	mg/Kg	20	4/21/2022 8:10:09 PM	67001
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analys	t: ED
Diesel Range Organics (DRO)	560	10	mg/Kg	1	4/21/2022 11:47:20 AM	66978
Motor Oil Range Organics (MRO)	300	50	mg/Kg	1	4/21/2022 11:47:20 AM	66978
Surr: DNOP	94.0	51.1-141	%Rec	1	4/21/2022 11:47:20 AM	66978
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	7.0	mg/Kg	1	4/21/2022 10:34:10 AM	G87428
Surr: BFB	92.9	37.7-212	%Rec	1	4/21/2022 10:34:10 AM	G87428
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.035	mg/Kg	1	4/21/2022 10:34:10 AM	B87428
Toluene	ND	0.070	mg/Kg	1	4/21/2022 10:34:10 AM	B87428
Ethylbenzene	ND	0.070	mg/Kg	1	4/21/2022 10:34:10 AM	B87428
Xylenes, Total	ND	0.14	mg/Kg	1	4/21/2022 10:34:10 AM	B87428
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	4/21/2022 10:34:10 AM	B87428

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 7

·	onmental Analysis Laboratory, Inc.	WO#: 2204920 26-Apr-22
Client: Project:	EOG State D SWD 1	

Sample ID: MB-67001	SampType: mblk	300.0: Anions		
Client ID: PBS	Batch ID: 67001	RunNo: 87438		
Prep Date: 4/21/2022	Analysis Date: 4/21/2022	SeqNo: 3093533	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-67001	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Sample ID: LCS-67001 Client ID: LCSS	SampType: I <b>cs</b> Batch ID: <b>67001</b>	TestCode: EPA Method RunNo: 87438	300.0: Anions	
			300.0: Anions Units: mg/Kg	
Client ID: LCSS	Batch ID: 67001	RunNo: <b>87438</b> SeqNo: <b>3093534</b>		RPDLimit Qual

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

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C SUMMART REFORT	WO#:	2204920
all Environmental Analysis Laboratory, Inc.		26-Apr-22

Client: EOG										
Project: State D	SWD 1									
Sample ID: LCS-66978	SampTy	/pe: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	ID: 669	978	F	RunNo: <b>8</b> 7	7442				
Prep Date: 4/21/2022	Analysis Da	ate: <b>4/</b> 2	21/2022	S	SeqNo: 30	093765	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	135			
Surr: DNOP	4.3		5.000		85.0	51.1	141			
Sample ID: MB-66978	SampTy	/pe: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	ID: 669	978	F	RunNo: <b>8</b> 7	7442				
Prep Date: 4/21/2022	Analysis Da	ate: <b>4/</b> 2	21/2022	S	SeqNo: <b>3(</b>	093766	Units: <b>mg/K</b>	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	8.8		10.00		88.3	51.1	141			

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

Page 5 of 7

	WO#:	2204920
ll Environmental Analysis Laboratory, Inc.		26-Apr-22

	DG ate D SWD 1									
Sample ID: mb	Sam	oType: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	ļ	
Client ID: PBS	Bat	ch ID: G8	7428	F	RunNo: <b>8</b> 7	7428				
Prep Date:	Analysis	Date: 4/2	21/2022	5	SeqNo: 30	92813	Units: <b>mg/K</b>	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (G	RO) ND	5.0								
Surr: BFB	950		1000		95.0	37.7	212			
Sample ID: 2.5ug gro	l <b>cs</b> Sam	oType: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Bat	ch ID: <b>G8</b>	7428	F	RunNo: 87	7428				
Prep Date:	Analysis	Date: 4/	21/2022	5	SeqNo: 30	92822	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (G	RO) 24	5.0	25.00	0	96.6	72.3	137			
Surr: BFB	2000		1000		200	37.7	212			

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

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UKI	WO#:	2204920	
ysis Laboratory, Inc.		26-Apr-22	

	COG tate D SWD 1									
Sample ID: mb	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: PBS	Bato	ch ID: <b>B8</b>	7428	F	RunNo: 87	7428				
Prep Date:	Analysis	Date: 4/2	21/2022	5	SeqNo: 3	093040	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-Bromofluorobenzo	ene 0.97		1.000		97.4	70	130			
Sample ID: 100ng bte	ex Ics Samp	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: LCSS	Bato	ch ID: <b>B8</b>	7428	F	RunNo: 87	7428				
Prep Date:	Analysis	Date: 4/2	21/2022	S	SeqNo: 3	093049	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	85.8	80	120			
Toluene	0.92	0.050	1.000	0	91.6	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.3	80	120			
Surr: 4-Bromofluorobenze	ene 0.99		1.000		98.5	70	130			

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

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ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-2	Albuquerque, N	wkins NE IM 87109 <b>Sa</b> l 345-4107	mple Log-In (	Page Check List
Client Name: EOG	Work Order Num	ber: 2204920		RcptNo	: 1
Received By: Tracy Casarrubias Completed By: Sean Livingston Reviewed By: CMC	4/21/2022 7:40:00 4/21/2022 8:09:04 4/21/202		5-6	not-	
C	in on our				
Chain of Custody 1. Is Chain of Custody complete?					
<ol> <li>Is onlain of custody complete?</li> <li>How was the sample delivered?</li> </ol>		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
Log In					
3. Was an attempt made to cool the samp	les?	Yes 🔽	No 🗌	NA 🗌	
4. Were all samples received at a tempera	ture of >0° C to 6.0°C	Yes 🔽	No 🗌		
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample volume for indicated te	at/a)2				
7. Are samples (except VOA and ONG) pro		Yes 🗹	No 🗌		
8. Was preservative added to bottles?	perty preserved?	Yes ☑ Yes □	No 🗌	NA 🗖	
				NA	
9. Received at least 1 vial with headspace	<1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🔽	
10. Were any sample containers received b	oken?	Yes 🗌	No 🔽	# of procented	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗌	# of preserved bottles checked for pH:	
12. Are matrices correctly identified on Chair		Yes 🔽	No 🗌	(<2 or Adjusted?	>12 unless noted)
13. Is it clear what analyses were requested		Yes 🗹			
14. Were all holding times able to be met?		Yes 🔽	No 🗌	Checked by:	JA4/21/22
(If no, notify customer for authorization.)			~		
Special Handling (if applicable)					
15. Was client notified of all discrepancies w	with this order?	Yes 🗌	No 🗌	NA 🔽	
Person Notified:	Date:				
By Whom:	Via:	eMail	] Phone 🗌 Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u>					

Page 1 of 1

- 1	HALL ENVIRONMENTAL	ORATORY		erque, NM 8/109	Analvsis Request		<del>} 4:0</del>	3:49	) <i>PM</i> -												<u>Page 6</u>	
		ANALT	www.hallen	Tel 606 346 3076	Analy Analy		(оъ	M / 0			D(GI	08) X∃T 808:H9 hloride (	- X							Remarks: Bill to EOG Artesia		es as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repoi
Turn-Around Time:	D Standard Kush 27- Nr.		State O Subiti	75		Project Manager: W. Kierdorf	)		r: W. Kennedy	Unice: Bares Lino		HEA	TCE ~ 001400	202	1 1 003					Received by: Via: Pate Time R	Received by: VIa: Date Time T: 7:7.0	conedited taboratories. This serv
Chain-of-Custody Record	Client: EOG-Artesia / Ranger Env.		Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Ranger: PO Box 201179, Austin TX 78720	Phone #: 521-335-1785	email or Fax#: Will@RangerEnv.com		Standard	Accreditation:	vbe) Excel		Date Time Matrix Sample Name		1002 SC-WW	+ 1000 - 52-WW					Relinquished by:	Poloci Time: Relinquished by:	bmitted to Hall Environmental may be subo



May 06, 2022

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

OrderNo.: 2204C81

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: State D SWD 1

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 13 sample(s) on 4/29/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204C81

Date Reported: 5/6/2022

CLIENT: EOG		Clie	ent Sample II	D: TH	H-2/33							
Project: State D SWD 1	Collection Date: 4/27/2022 11:04:00 AM											
Lab ID: 2204C81-002	Matrix: SOIL	]	29/2022 7:10:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS					Analys	t: JMT						
Chloride	100	60	mg/Kg	20	5/3/2022 12:08:03 AM	67209						
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: JME						
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/2/2022 10:15:37 AM	67168						
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/2/2022 10:15:37 AM	67168						
Surr: DNOP	105	51.1-141	%Rec	1	5/2/2022 10:15:37 AM	67168						
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: BRM						
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/2/2022 10:41:00 AM	67163						
Surr: BFB	105	37.7-212	%Rec	1	5/2/2022 10:41:00 AM	67163						
EPA METHOD 8021B: VOLATILES					Analys	t: BRM						
Benzene	ND	0.024	mg/Kg	1	5/2/2022 10:41:00 AM	67163						
Toluene	ND	0.048	mg/Kg	1	5/2/2022 10:41:00 AM	67163						
Ethylbenzene	ND	0.048	mg/Kg	1	5/2/2022 10:41:00 AM	67163						
Xylenes, Total	ND	0.096	mg/Kg	1	5/2/2022 10:41:00 AM	67163						
Surr: 4-Bromofluorobenzene	85.5	70-130	%Rec	1	5/2/2022 10:41:00 AM	67163						

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204C81

Date Reported: 5/6/2022

CLIENT: EOG		Cli	ient Sample II	D: TH	H-2/37							
Project: State D SWD 1	Collection Date: 4/27/2022 11:09:00 AM											
Lab ID: 2204C81-003	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 4/2	29/2022 7:10:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS					Analys	t: JMT						
Chloride	75	60	mg/Kg	20	5/3/2022 12:20:25 AM	67209						
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: JME						
Diesel Range Organics (DRO)	30	9.6	mg/Kg	1	5/2/2022 10:29:24 AM	67168						
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/2/2022 10:29:24 AM	67168						
Surr: DNOP	107	51.1-141	%Rec	1	5/2/2022 10:29:24 AM	67168						
EPA METHOD 8015D: GASOLINE RANG	θE				Analys	t: BRM						
Gasoline Range Organics (GRO)	6.0	4.9	mg/Kg	1	5/2/2022 11:41:00 AM	67163						
Surr: BFB	175	37.7-212	%Rec	1	5/2/2022 11:41:00 AM	67163						
EPA METHOD 8021B: VOLATILES					Analys	t: BRM						
Benzene	ND	0.025	mg/Kg	1	5/2/2022 11:41:00 AM	67163						
Toluene	ND	0.049	mg/Kg	1	5/2/2022 11:41:00 AM	67163						
Ethylbenzene	ND	0.049	mg/Kg	1	5/2/2022 11:41:00 AM	67163						
Xylenes, Total	ND	0.099	mg/Kg	1	5/2/2022 11:41:00 AM	67163						
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	5/2/2022 11:41:00 AM	67163						

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204C81

Date Reported: 5/6/2022

CLIENT: EOG	Client Sample ID: TH-2/43							
Project: State D SWD 1	Collection Date: 4/27/2022 11:15:00 AM							
Lab ID: 2204C81-004	Matrix: SOIL	Received Date: 4/29/2022 7:10:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: JMT		
Chloride	69	60	mg/Kg	20	5/3/2022 12:32:46 AM	67209		
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analys	t: JME		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/2/2022 10:43:12 AM	67168		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/2/2022 10:43:12 AM	67168		
Surr: DNOP	106	51.1-141	%Rec	1	5/2/2022 10:43:12 AM	67168		
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: BRM		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/2/2022 12:40:00 PM	67163		
Surr: BFB	103	37.7-212	%Rec	1	5/2/2022 12:40:00 PM	67163		
EPA METHOD 8021B: VOLATILES					Analys	t: BRM		
Benzene	ND	0.024	mg/Kg	1	5/2/2022 12:40:00 PM	67163		
Toluene	ND	0.047	mg/Kg	1	5/2/2022 12:40:00 PM	67163		
Ethylbenzene	ND	0.047	mg/Kg	1	5/2/2022 12:40:00 PM	67163		
Xylenes, Total	ND	0.095	mg/Kg	1	5/2/2022 12:40:00 PM	67163		
Surr: 4-Bromofluorobenzene	83.1	70-130	%Rec	1	5/2/2022 12:40:00 PM	67163		

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204C81

Date Reported: 5/6/2022

CLIENT: EOG Project: State D SWD 1	Client Sample ID: TH-2/45						
Project:         State D SWD 1           Lab ID:         2204C81-005	Collection Date: 4/27/2022 11:17:00 AM           Matrix: SOIL         Received Date: 4/29/2022 7:10:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	78	60	mg/Kg	20	5/3/2022 12:45:06 AM	67209	
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analys	t: JME	
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	5/2/2022 10:57:05 AM	67168	
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/2/2022 10:57:05 AM	67168	
Surr: DNOP	107	51.1-141	%Rec	1	5/2/2022 10:57:05 AM	67168	
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/2/2022 12:59:00 PM	67163	
Surr: BFB	103	37.7-212	%Rec	1	5/2/2022 12:59:00 PM	67163	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.025	mg/Kg	1	5/2/2022 12:59:00 PM	67163	
Toluene	ND	0.050	mg/Kg	1	5/2/2022 12:59:00 PM	67163	
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2022 12:59:00 PM	67163	
Xylenes, Total	ND	0.099	mg/Kg	1	5/2/2022 12:59:00 PM	67163	
Surr: 4-Bromofluorobenzene	81.0	70-130	%Rec	1	5/2/2022 12:59:00 PM	67163	

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204C81

Date Reported: 5/6/2022

CLIENT: EOG	Client Sample ID: TH-3/31 Collection Date: 4/27/2022 2:53:00 PM						
Project: State D SWD 1							
Lab ID: 2204C81-006	Matrix: SOIL	<b>Received Date:</b> 4/29/2022 7:10:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	98	60	mg/Kg	20	5/3/2022 12:57:26 AM	67209	
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analys	t: JME	
Diesel Range Organics (DRO)	10	9.5	mg/Kg	1	5/2/2022 11:10:51 AM	67168	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/2/2022 11:10:51 AM	67168	
Surr: DNOP	109	51.1-141	%Rec	1	5/2/2022 11:10:51 AM	67168	
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/2/2022 1:19:00 PM	67163	
Surr: BFB	106	37.7-212	%Rec	1	5/2/2022 1:19:00 PM	67163	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.023	mg/Kg	1	5/2/2022 1:19:00 PM	67163	
Toluene	ND	0.047	mg/Kg	1	5/2/2022 1:19:00 PM	67163	
Ethylbenzene	ND	0.047	mg/Kg	1	5/2/2022 1:19:00 PM	67163	
Xylenes, Total	ND	0.094	mg/Kg	1	5/2/2022 1:19:00 PM	67163	
Surr: 4-Bromofluorobenzene	83.6	70-130	%Rec	1	5/2/2022 1:19:00 PM	67163	

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204C81

Date Reported: 5/6/2022

CLIENT: EOG		Clie	ent Sample II	D: TH	H-3/39		
Project: State D SWD 1		C	ollection Dat	<b>e:</b> 4/2	27/2022 3:01:00 PM		
Lab ID: 2204C81-007	Matrix: SOIL	Matrix: SOIL Received Date: 4/29/2022					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	89	60	mg/Kg	20	5/3/2022 1:34:28 AM	67209	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: JME	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/2/2022 11:54:21 AM	67168	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/2/2022 11:54:21 AM	67168	
Surr: DNOP	108	51.1-141	%Rec	1	5/2/2022 11:54:21 AM	67168	
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/2/2022 1:39:00 PM	67163	
Surr: BFB	102	37.7-212	%Rec	1	5/2/2022 1:39:00 PM	67163	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.025	mg/Kg	1	5/2/2022 1:39:00 PM	67163	
Toluene	ND	0.050	mg/Kg	1	5/2/2022 1:39:00 PM	67163	
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2022 1:39:00 PM	67163	
Xylenes, Total	ND	0.10	mg/Kg	1	5/2/2022 1:39:00 PM	67163	
Surr: 4-Bromofluorobenzene	80.3	70-130	%Rec	1	5/2/2022 1:39:00 PM	67163	

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204C81

Date Reported: 5/6/2022

CLIENT: EOG		Cliv	nt Sampla II	<b>).</b> TI	1 3//2				
Project: State D SWD 1	Client Sample ID: TH-3/43 Collection Date: 4/27/2022 3:05:00 PM								
Lab ID:         2204C81-008	Matrix: SOIL	-			29/2022 7:10:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: JMT			
Chloride	86	60	mg/Kg	20	5/3/2022 1:46:48 AM	67209			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: JME			
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	5/2/2022 12:08:07 PM	67168			
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/2/2022 12:08:07 PM	67168			
Surr: DNOP	109	51.1-141	%Rec	1	5/2/2022 12:08:07 PM	67168			
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: BRM			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/2/2022 1:59:00 PM	67163			
Surr: BFB	104	37.7-212	%Rec	1	5/2/2022 1:59:00 PM	67163			
EPA METHOD 8021B: VOLATILES					Analys	t: BRM			
Benzene	ND	0.024	mg/Kg	1	5/2/2022 1:59:00 PM	67163			
Toluene	ND	0.047	mg/Kg	1	5/2/2022 1:59:00 PM	67163			
Ethylbenzene	ND	0.047	mg/Kg	1	5/2/2022 1:59:00 PM	67163			
Xylenes, Total	ND	0.094	mg/Kg	1	5/2/2022 1:59:00 PM	67163			
Surr: 4-Bromofluorobenzene	84.4	70-130	%Rec	1	5/2/2022 1:59:00 PM	67163			

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204C81

Date Reported: 5/6/2022

CLIENT: EOG		Clie	nt Sample II	): Tł	H-3/45	
<b>Project:</b> State D SWD 1		Co	ollection Dat	e: 4/2	27/2022 3:07:00 PM	
Lab ID: 2204C81-009	Matrix: SOIL	R	Received Dat	e: 4/2	29/2022 7:10:00 AM	
Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	63	60	mg/Kg	20	5/3/2022 12:39:18 PM	67208
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	5/2/2022 12:21:57 PM	67168
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/2/2022 12:21:57 PM	67168
Surr: DNOP	110	51.1-141	%Rec	1	5/2/2022 12:21:57 PM	67168
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/2/2022 2:18:00 PM	67163
Surr: BFB	105	37.7-212	%Rec	1	5/2/2022 2:18:00 PM	67163
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.025	mg/Kg	1	5/2/2022 2:18:00 PM	67163
Toluene	ND	0.050	mg/Kg	1	5/2/2022 2:18:00 PM	67163
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2022 2:18:00 PM	67163
Xylenes, Total	ND	0.10	mg/Kg	1	5/2/2022 2:18:00 PM	67163
Surr: 4-Bromofluorobenzene	84.2	70-130	%Rec	1	5/2/2022 2:18:00 PM	67163

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204C81

Date Reported: 5/6/2022

CLIENT: EOG		Clie	ent Sample II	D: TH	I-4/29	
Project: State D SWD 1		C	ollection Dat	e: 4/2	27/2022 3:49:00 PM	
Lab ID: 2204C81-010	Matrix: SOIL	ŀ	Received Dat	e: 4/2	29/2022 7:10:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	94	61	mg/Kg	20	5/3/2022 12:51:44 PM	67208
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/2/2022 12:35:44 PM	67168
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/2/2022 12:35:44 PM	67168
Surr: DNOP	110	51.1-141	%Rec	1	5/2/2022 12:35:44 PM	67168
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/2/2022 2:38:00 PM	67163
Surr: BFB	103	37.7-212	%Rec	1	5/2/2022 2:38:00 PM	67163
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.024	mg/Kg	1	5/2/2022 2:38:00 PM	67163
Toluene	ND	0.049	mg/Kg	1	5/2/2022 2:38:00 PM	67163
Ethylbenzene	ND	0.049	mg/Kg	1	5/2/2022 2:38:00 PM	67163
Xylenes, Total	ND	0.097	mg/Kg	1	5/2/2022 2:38:00 PM	67163
Surr: 4-Bromofluorobenzene	83.3	70-130	%Rec	1	5/2/2022 2:38:00 PM	67163

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204C81

Date Reported: 5/6/2022

CLIENT: EOG	Client Sample ID: TH-4/35								
Project: State D SWD 1		0	Collection Dat	<b>e:</b> 4/2	27/2022 3:55:00 PM				
Lab ID: 2204C81-011	Matrix: SOIL		Received Dat	<b>e:</b> 4/2	29/2022 7:10:00 AM				
Analyses	Result	RL	Qual Units	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: NAI			
Chloride	100	60	mg/Kg	20	5/3/2022 3:40:34 PM	67208			
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: JME			
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	5/2/2022 12:49:25 PM	67168			
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	5/2/2022 12:49:25 PM	67168			
Surr: DNOP	110	51.1-141	%Rec	1	5/2/2022 12:49:25 PM	67168			
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	t: BRM			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/2/2022 2:58:00 PM	67163			
Surr: BFB	95.8	37.7-212	%Rec	1	5/2/2022 2:58:00 PM	67163			
EPA METHOD 8021B: VOLATILES					Analys	t: BRM			
Benzene	ND	0.025	mg/Kg	1	5/2/2022 2:58:00 PM	67163			
Toluene	ND	0.050	mg/Kg	1	5/2/2022 2:58:00 PM	67163			
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2022 2:58:00 PM	67163			
Xylenes, Total	ND	0.10	mg/Kg	1	5/2/2022 2:58:00 PM	67163			
Surr: 4-Bromofluorobenzene	79.3	70-130	%Rec	1	5/2/2022 2:58:00 PM	67163			

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Surr: 4-Bromofluorobenzene

**Analytical Report** 

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204C81

Date Reported: 5/6/2022

5/2/2022 3:57:00 PM

67163

CLIENT: EOG		Cl	ient Sample II	D: TH	I-4/41					
<b>Project:</b> State D SWD 1		Collection Date: 4/27/2022 4:00:00 PM								
Lab ID: 2204C81-012	Matrix: SOIL	Matrix: SOIL         Received Date: 4/29/2022 7:10:00 AN								
Analyses	Result	sult RL Qual Units DF Date Analyzed								
EPA METHOD 300.0: ANIONS					Analys	t: NAI				
Chloride	110	61	mg/Kg	20	5/3/2022 3:52:59 PM	67208				
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: JME				
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	5/2/2022 1:03:06 PM	67168				
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	5/2/2022 1:03:06 PM	67168				
Surr: DNOP	108	51.1-141	%Rec	1	5/2/2022 1:03:06 PM	67168				
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: BRM				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/2/2022 3:57:00 PM	67163				
Surr: BFB	105	37.7-212	%Rec	1	5/2/2022 3:57:00 PM	67163				
EPA METHOD 8021B: VOLATILES					Analys	t: BRM				
Benzene	ND	0.024	mg/Kg	1	5/2/2022 3:57:00 PM	67163				
Toluene	ND	0.048	mg/Kg	1	5/2/2022 3:57:00 PM	67163				
Ethylbenzene	ND	0.048	mg/Kg	1	5/2/2022 3:57:00 PM	67163				
Xylenes, Total	ND	0.096	mg/Kg	1	5/2/2022 3:57:00 PM	67163				

83.4

70-130

%Rec

1

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Surr: 4-Bromofluorobenzene

**Analytical Report** 

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2204C81

Date Reported: 5/6/2022

5/2/2022 4:17:00 PM

67163

CLIENT: EOG		Cl	ient Sample II	D: TH	I-4/45	
Project: State D SWD 1		(	Collection Dat	<b>e:</b> 4/2	27/2022 4:05:00 PM	
Lab ID: 2204C81-013	Matrix: SOIL		<b>e:</b> 4/2	29/2022 7:10:00 AM		
Analyses	Result	RL	DF	Batch		
EPA METHOD 300.0: ANIONS					Analys	it: NAI
Chloride	120	60	mg/Kg	20	5/3/2022 4:05:23 PM	67208
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/2/2022 1:17:09 PM	67168
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/2/2022 1:17:09 PM	67168
Surr: DNOP	110	51.1-141	%Rec	1	5/2/2022 1:17:09 PM	67168
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	st: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/2/2022 4:17:00 PM	67163
Surr: BFB	101	37.7-212	%Rec	1	5/2/2022 4:17:00 PM	67163
EPA METHOD 8021B: VOLATILES					Analys	st: BRM
Benzene	ND	0.025	mg/Kg	1	5/2/2022 4:17:00 PM	67163
Toluene	ND	0.049	mg/Kg	1	5/2/2022 4:17:00 PM	67163
Ethylbenzene	ND	0.049	mg/Kg	1	5/2/2022 4:17:00 PM	67163
Xylenes, Total	ND	0.099	mg/Kg	1	5/2/2022 4:17:00 PM	67163

82.0

70-130

%Rec

1

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 12 of 16

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2204C81
	06 May 22

06-May-22

Client:	EOG									
Project:	State D S	WD 1								
Sample ID:	MB-67209	SampType: mb	lk	Tes	stCode: EF	PA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 672	209	F	RunNo: <b>87</b>	7670				
Prep Date:	5/2/2022	Analysis Date: 5/2	2/2022	\$	SeqNo: 31	104230	Units: mg/K	9		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-67209	SampType: Ics		Tes	stCode: EF	PA Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 67209 RunNo: 87670								
Prep Date:	5/2/2022	Analysis Date: 5/2	lysis Date: 5/2/2022 SeqNo: 3104231 Units: mg/Kg							
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	94.0	90	110			
Sample ID:	MB-67208	SampType: mb	lk	Tes	stCode: EF	PA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 672	208	F	RunNo: <b>87</b>	7697				
Prep Date:	5/2/2022	Analysis Date: 5/3	3/2022	5	SeqNo: 31	105941	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-67208	SampType: Ics		Tes	stCode: EF	PA Method	300.0: Anions			
		Batch ID: 672	000	F	RunNo: 87	7697				
Client ID:	LCSS	BalchiD. 012	.00	-						
Client ID: Prep Date:	LCSS 5/2/2022	Analysis Date: 5/3			SeqNo: 31	105942	Units: mg/Kg	g		
					SeqNo: 31 %REC	105942 LowLimit	Units: <b>mg/K</b> HighLimit	g %RPD	RPDLimit	Qual

Qualifiers:

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

Page 13 of 16

Client: EOG										
Project: State I	O SWD 1									
Sample ID: MB-67168	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 671	168	F	RunNo: <b>87</b>	7654				
Prep Date: 4/29/2022	Analysis D	ate: <b>5/</b> 2	2/2022	S	SeqNo: 31	103431	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	9.6		10.00		96.2	51.1	141			

#### Qualifiers:

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

2204C81

06-May-22

WO#:

EOG

**Client:** 

Surr: BFB

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

Project: State D S	SWD 1		
Sample ID: Ics-67163	SampType: LCS	TestCode: EPA Meth	od 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 67163	RunNo: 87661	
Prep Date: 4/29/2022	Analysis Date: 5/2/2022	SeqNo: 3103633	Units: <b>mg/Kg</b>
Analyte	Result PQL SPK v	alue SPK Ref Val %REC LowLir	nit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	28 5.0 25	5.00 0 114 72	.3 137
Surr: BFB	2300 1	000 230 37	.7 212 S
Sample ID: mb-67163	SampType: MBLK	TestCode: EPA Meth	od 8015D: Gasoline Range
Client ID: PBS	Batch ID: 67163	RunNo: 87661	
Prep Date: 4/29/2022	Analysis Date: 5/2/2022	SeqNo: 3103634	Units: mg/Kg
Analyte	Result PQL SPK v	alue SPK Ref Val %REC LowLir	nit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0		
Surr: BFB	1000 1	000 101 37	.7 212
Sample ID: Ics-67167	SampType: LCS	TestCode: EPA Meth	od 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 67167	RunNo: 87661	
Prep Date: 4/29/2022	Analysis Date: 5/2/2022	SeqNo: 3103657	Units: %Rec
Analyte	Result PQL SPK v	alue SPK Ref Val %REC LowLir	nit HighLimit %RPD RPDLimit Qual
Surr: BFB	2300 1	000 226 37	.7 212 S
Sample ID: mb-67167	SampType: MBLK	TestCode: EPA Meth	od 8015D: Gasoline Range
Client ID: PBS	Batch ID: 67167	RunNo: 87661	
Prep Date: 4/29/2022	Analysis Date: 5/2/2022	SeqNo: 3103658	Units: %Rec
Analyte	Result PQL SPK v	alue SPK Ref Val %REC LowLir	nit HighLimit %RPD RPDLimit Qual

1000 1000 104

Qualifiers:

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

PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank в

37.7

212

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 15 of 16

WO#: 2204C81 06-May-22

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 2204C81

06-May-22

Client: Project:	EOG State D S	SWD 1									
Sample ID: Ics	-67163	SampT	Гуре: <b>LC</b>	s	Tes	tCode: EF	PA Method	8021B: Volati	es		
Client ID: LC	SS	Batcl	h ID: 671	63	RunNo: 87661						
Prep Date: 4/	29/2022	Analysis [	Date: 5/2	2/2022	Ş	SeqNo: 31	103681	Units: mg/K	q		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.86	0.025	1.000	0	85.5	80	120			Quu
Toluene		0.88	0.020	1.000	0	87.6	80	120			
Ethylbenzene		0.88	0.050	1.000	0	88.3	80	120			
Xylenes, Total		2.6	0.10	3.000	0	88.2	80	120			
Surr: 4-Bromofluc	probenzene	0.87		1.000	-	86.7	70	130			
Sample ID: mb	-67163	Samp	SampType: MBLK TestCode: EPA Method 8					8021B: Volati	es		
Client ID: PB	S	Batch ID: 67163			F	RunNo: 87					
Prep Date: 4/	29/2022	Analysis I	Date: 5/2	2/2022		SeqNo: 31		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-Bromofluc	orobenzene	0.83		1.000		83.5	70	130			
Sample ID: Ics	-67167	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	es		
Client ID: LC	SS	Batcl	h ID: 671	67	F	RunNo: <b>87</b>	7661				
Prep Date: 4/	29/2022	Analysis [	Date: 5/2	2/2022	S	SeqNo: 31	103705	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluc	probenzene	0.82		1.000		82.4	70	130			
Sample ID: mb	-67167	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volati	es		
Client ID: PB	S	Batcl	h ID: 671	67	F	RunNo: <b>87</b>	7661				
Prep Date: 4/	29/2022	Analysis I	Date: 5/2	2/2022	5	SeqNo: 31	103706	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromoflue	orobenzene	0.84		1.000		84.1	70	130			

Qualifiers:

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

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 16 of 16

			4:03:49 PN TAL		EL: 505-345-	ental Analysis Labo 4901 Hawki Albuquerque, NM 3975 FAX: 505-345 w.hallenvironmenta	ns NE 87109 Sai	mple Log-In C	Page 84 o
Clie	nt Name:	EOG		Wor	k Order Nun	nber: 2204C81		RcptNo	: 1
Rece	eived By:	Juan Ro	ojas	4/29/2	022 7:10:00	АМ	Guan Eng		
Com	pleted By:	Tracy Ca	asarrubias	4/29/2	022 8:00:26	AM			
Revie	ewed By:	KPG	4.3	29-22					
	in of Cus								
1. Is	Chain of Cu	ustody com	plete?			Yes 🗹	No 🗌	Not Present	
2. Ho	ow was the	sample del	ivered?			Courier			
<u>Log</u> 3. wa		pt made to	cool the sar	nples?		Yes 🔽	No 🗌	NA 🗌	
4. We	ere all samp	les receive	d at a tempe	erature of >0° C	to 6.0°C	Yes 🗹	No 🗌		
5. Sa	imple(s) in p	proper cont	ainer(s)?			Yes 🔽	No 🗌		
6. Suf	fficient samp	ole volume	for indicated	I test(s)?		Yes 🔽	No 🗌		
7. Are	e samples (e	except VOA	and ONG)	properly preserv	ed?	Yes 🔽	No 🗌		
8. Wa	is preservat	ive added t	o bottles?			Yes 🗌	No 🗹	NA 🗆	
9. Rec	ceived at lea	ast 1 vial w	ith headspac	e <1/4" for AQ	/OA?	Yes 🗌	No 🗌	NA 🔽	
			ers received			Yes	No 🔽		
	es paperwor					Yes 🔽	No 🗌	# of preserved bottles checked for pH:	
			ain of custo			_	_		>12 unless noted)
				ain of Custody?		Yes 🗹	No 🗌	Adjusted?	
			vere requeste e to be met?			Yes 🗹	No 🗌		Alloala-
			authorization			Yes 🗹	No 🗌	Checked by:	1992917
Specia	al Handliı	ng (if ap	olicable)						
15.Wa	is client noti	fied of all d	liscrepancies	s with this order	?	Yes 🗌	No 🗌	NA 🔽	
	Person N	lotified:	1		Date:	1			
	By Whon	n:	[		Via:	,	hone 🗌 Fax	In Person	
	Regardin	g:	[						
	Client Ins	tructions:	J		4-479 L & LEV & STRALLER				
16. Ad	ditional rem	arks:							
	oler Inform	ation							
1	Cooler No	Temp °C	Condition		Seal No	Seal Date	Signed By		
		1.6	Good	Yes					

Page 1 of 1

Hall ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request		X X K X X K A A A A A A A A A A A A A A A A A A A	contracted data will be clearly notated on the analytical
4901 H	Сhloride (EPA 300) Сhloride (EPA 300)	X X X X X X X X X X X X X X X X X X X	sibility. Any st
	BTEX (8021)		C O C O C O C O O O O O O O O O O O O O
Turn-Around Time: C Standard な Rush 48・hr Project Name: Sturk ひ Swひ 舟4 Project #: 5375	Project Manager: W. Kierdorf Sampler: い, /ともんといい On Ice: 日子をS DNo # of Coolers: こ Cooler Temp(including CF): 1, 6-0 C i. 6 Container Preservative 6.5-0 C. 8 HEAL No. Type and # Type 22.64 C 8 I	WWW.	Via:
Turn- Proje		Received by:	Received by:
Client: EOG-Artesia / Ranger Env. 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	r Fax#: W Package: dard tation: AC (Type)_		ate: Time: Relinquished by: Received by:

#### **Released to Imaging: 9/2/2022 11:22:54 AM**

R	leceiv	ed by	у <b>ОС</b> .	<b>D: 5</b> /	/18/2	022	<i>4:0</i> .	3:49	PM	-		-		1	Т	T	T	1	 1	T					Pa	ge 86	of 129
	HALL ENVIRONMENTAL	ANALTSIS LABORATORY	m	A	000-545-5975 Fax 505-345-4107 Analysis Recurest																			EOG Artesia			iccredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
	Π				el. 202								Shloride	-			+	-	 		+	_	_	: Bill to			Any sub-
				27 F	-	-	(OA	W / (	ряа	/0			8) X∃TE 108:H91	1 - 1										Remarks: Bill to			ossibility.
Turn-Around Time:	Standard & Rush 78-L.		State is swo #1	Project #: 5375		Project Manager: W. Kierdorf			r W. Kun	On Ice:		Cooler Temp(including CF): 16-021. L	Container Preservative じょう-むこ© - S Type and # Type ファムレ &I										i	VIA: Uate lime	Received by: Via: Date Time	2 raviery Palo 710	ocontracted tot <b>ot</b> fer accredited laboratories. This serves as notice of this p
Chain-of-Custody Record	Client: EOG-Artesia / Ranger Env.		Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Ranger: PO Box 201179, Austin TX 78720	Phone #: 521-335-1785	email or Fax#: Will@RangerEnv.com	QA/QC Package:	Standard   Level 4 (Full Validation)	Accreditation:  Accreditation:  Accompliance		Edu (Type) Excel		Date Time Matrix Sample Name	427/2 1665 5vi TH-4/45									Date: Time: Relinnuished hv.	37-115	Date: Time: Relinquished by:	188/001 1900 (COULDED	ir necessary, samples submitted to Hall Environmental may be selbcontracted to the

l



May 13, 2022 Will Kierdorf EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2205428

RE: State D SWD 1

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 19 sample(s) on 5/10/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	<b>):</b> S3	-N	
Project: State D SWD 1		(	Collection Dat	e: 5/9	0/2022 8:20:00 AM	
Lab ID: 2205428-001	Matrix: SOIL		<b>Received Date</b>	e: 5/1	0/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	100	60	mg/Kg	20	5/10/2022 8:23:13 PM	67381
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/11/2022 8:07:07 AM	67371
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/11/2022 8:07:07 AM	67371
Surr: DNOP	93.1	51.1-141	%Rec	1	5/11/2022 8:07:07 AM	67371
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2022 8:01:20 AM	67372
Surr: BFB	98.2	37.7-212	%Rec	1	5/11/2022 8:01:20 AM	67372
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2022 8:01:20 AM	67372
Toluene	ND	0.048	mg/Kg	1	5/11/2022 8:01:20 AM	67372
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2022 8:01:20 AM	67372
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2022 8:01:20 AM	67372
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	1	5/11/2022 8:01:20 AM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 23

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	<b>D:</b> S3	-W	
<b>Project:</b> State D SWD 1		(	Collection Dat	e: 5/9	9/2022 8:24:00 AM	
Lab ID: 2205428-002	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/1	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	170	60	mg/Kg	20	5/10/2022 9:00:26 PM	67381
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	18	9.6	mg/Kg	1	5/11/2022 8:31:09 AM	67371
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/11/2022 8:31:09 AM	67371
Surr: DNOP	89.4	51.1-141	%Rec	1	5/11/2022 8:31:09 AM	67371
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/11/2022 8:25:04 AM	67372
Surr: BFB	94.5	37.7-212	%Rec	1	5/11/2022 8:25:04 AM	67372
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/11/2022 8:25:04 AM	67372
Toluene	ND	0.050	mg/Kg	1	5/11/2022 8:25:04 AM	67372
Ethylbenzene	ND	0.050	mg/Kg	1	5/11/2022 8:25:04 AM	67372
Xylenes, Total	ND	0.10	mg/Kg	1	5/11/2022 8:25:04 AM	67372
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	5/11/2022 8:25:04 AM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р
- Sample pH Not In Range RL Reporting Limit
- Page 2 of 23

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG Project: State D SWD 1	Client Sample ID: S4-N Collection Date: 5/9/2022 8:28:00 AM										
Lab ID: 2205428-003	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/1	0/2022 7:00:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst	CAS					
Chloride	62	60	mg/Kg	20	5/10/2022 9:12:51 PM	67381					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: SB					
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/11/2022 8:55:12 AM	67371					
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/11/2022 8:55:12 AM	67371					
Surr: DNOP	91.7	51.1-141	%Rec	1	5/11/2022 8:55:12 AM	67371					
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB					
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/11/2022 8:48:49 AM	67372					
Surr: BFB	95.0	37.7-212	%Rec	1	5/11/2022 8:48:49 AM	67372					
EPA METHOD 8021B: VOLATILES					Analyst	: NSB					
Benzene	ND	0.024	mg/Kg	1	5/11/2022 8:48:49 AM	67372					
Toluene	ND	0.047	mg/Kg	1	5/11/2022 8:48:49 AM	67372					
Ethylbenzene	ND	0.047	mg/Kg	1	5/11/2022 8:48:49 AM	67372					
Xylenes, Total	ND	0.094	mg/Kg	1	5/11/2022 8:48:49 AM	67372					
Surr: 4-Bromofluorobenzene	96.6	70-130	%Rec	1	5/11/2022 8:48:49 AM	67372					

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit
- Page 3 of 23

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	<b>):</b> S4	B	
Project: State D SWD 1		(	Collection Dat	e: 5/9	9/2022 8:34:00 AM	
Lab ID: 2205428-004	Matrix: SOIL		<b>Received Date</b>	e: 5/1	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	92	61	mg/Kg	20	5/10/2022 9:25:15 PM	67381
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	82	9.8	mg/Kg	1	5/11/2022 9:19:08 AM	67371
Motor Oil Range Organics (MRO)	72	49	mg/Kg	1	5/11/2022 9:19:08 AM	67371
Surr: DNOP	105	51.1-141	%Rec	1	5/11/2022 9:19:08 AM	67371
EPA METHOD 8015D: GASOLINE RANGE	1				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/11/2022 9:12:24 AM	67372
Surr: BFB	94.9	37.7-212	%Rec	1	5/11/2022 9:12:24 AM	67372
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	5/11/2022 9:12:24 AM	67372
Toluene	ND	0.046	mg/Kg	1	5/11/2022 9:12:24 AM	67372
Ethylbenzene	ND	0.046	mg/Kg	1	5/11/2022 9:12:24 AM	67372
Xylenes, Total	ND	0.093	mg/Kg	1	5/11/2022 9:12:24 AM	67372
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	5/11/2022 9:12:24 AM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р
- Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG	Client Sample ID: S4-EW									
Project: State D SWD 1		(	Collection Dat	<b>e:</b> 5/9	0/2022 8:40:00 AM					
Lab ID: 2205428-005	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/1	0/2022 7:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	CAS				
Chloride	180	60	mg/Kg	20	5/10/2022 9:37:40 PM	67381				
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	: SB				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/11/2022 9:43:10 AM	67371				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/11/2022 9:43:10 AM	67371				
Surr: DNOP	98.9	51.1-141	%Rec	1	5/11/2022 9:43:10 AM	67371				
EPA METHOD 8015D: GASOLINE RANG	<b>E</b>				Analys	: NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2022 9:35:59 AM	67372				
Surr: BFB	98.4	37.7-212	%Rec	1	5/11/2022 9:35:59 AM	67372				
EPA METHOD 8021B: VOLATILES					Analys	: NSB				
Benzene	ND	0.024	mg/Kg	1	5/11/2022 9:35:59 AM	67372				
Toluene	ND	0.049	mg/Kg	1	5/11/2022 9:35:59 AM	67372				
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2022 9:35:59 AM	67372				
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2022 9:35:59 AM	67372				
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	5/11/2022 9:35:59 AM	67372				

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р
- Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG Project: State D SWD 1	Client Sample ID: S4-SW Collection Date: 5/9/2022 9:00:00 AM									
Project:         State D SWD 1           Lab ID:         2205428-006	Matrix: SOIL				10/2022 9:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	: CAS				
Chloride	65	60	mg/Kg	20	5/10/2022 9:50:04 PM	67381				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	: SB				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/11/2022 10:07:10 AM	1 67371				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/11/2022 10:07:10 AM	1 67371				
Surr: DNOP	100	51.1-141	%Rec	1	5/11/2022 10:07:10 AM	1 67371				
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2022 9:59:37 AM	67372				
Surr: BFB	98.3	37.7-212	%Rec	1	5/11/2022 9:59:37 AM	67372				
EPA METHOD 8021B: VOLATILES					Analys	: NSB				
Benzene	ND	0.024	mg/Kg	1	5/11/2022 9:59:37 AM	67372				
Toluene	ND	0.048	mg/Kg	1	5/11/2022 9:59:37 AM	67372				
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2022 9:59:37 AM	67372				
Xylenes, Total	ND	0.096	mg/Kg	1	5/11/2022 9:59:37 AM	67372				
Surr: 4-Bromofluorobenzene	96.3	70-130	%Rec	1	5/11/2022 9:59:37 AM	67372				

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	<b>D:</b> S4	-WWA	
Project: State D SWD 1		(	Collection Dat	e: 5/9	9/2022 9:02:00 AM	
Lab ID: 2205428-007	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/1	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	190	60	mg/Kg	20	5/10/2022 10:02:29 PM	67381
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	18	10	mg/Kg	1	5/11/2022 10:31:15 AM	67371
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/11/2022 10:31:15 AM	67371
Surr: DNOP	105	51.1-141	%Rec	1	5/11/2022 10:31:15 AM	67371
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	5/11/2022 10:23:16 AM	67372
Surr: BFB	98.4	37.7-212	%Rec	5	5/11/2022 10:23:16 AM	67372
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.12	mg/Kg	5	5/11/2022 10:23:16 AM	67372
Toluene	ND	0.24	mg/Kg	5	5/11/2022 10:23:16 AM	67372
Ethylbenzene	ND	0.24	mg/Kg	5	5/11/2022 10:23:16 AM	67372
Xylenes, Total	ND	0.49	mg/Kg	5	5/11/2022 10:23:16 AM	67372
Surr: 4-Bromofluorobenzene	96.4	70-130	%Rec	5	5/11/2022 10:23:16 AM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р
- Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	<b>):</b> S5	-B	
Project: State D SWD 1		(	Collection Date	e: 5/9	9/2022 9:04:00 AM	
Lab ID: 2205428-008	Matrix: SOIL		Received Date	e: 5/1	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	70	60	mg/Kg	20	5/10/2022 10:39:42 PM	67381
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/11/2022 10:55:17 AM	67371
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/11/2022 10:55:17 AM	67371
Surr: DNOP	99.8	51.1-141	%Rec	1	5/11/2022 10:55:17 AM	67371
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2022 10:46:41 AM	67372
Surr: BFB	98.9	37.7-212	%Rec	1	5/11/2022 10:46:41 AM	67372
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2022 10:46:41 AM	67372
Toluene	ND	0.048	mg/Kg	1	5/11/2022 10:46:41 AM	67372
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2022 10:46:41 AM	67372
Xylenes, Total	ND	0.096	mg/Kg	1	5/11/2022 10:46:41 AM	67372
Surr: 4-Bromofluorobenzene	97.7	70-130	%Rec	1	5/11/2022 10:46:41 AM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р
- Sample pH Not In Range RL Reporting Limit
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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG	Client Sample ID: S5-WWA									
Project: State D SWD 1		(	Collection Dat	<b>e:</b> 5/9	0/2022 9:06:00 AM					
Lab ID: 2205428-009	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/1	0/2022 7:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	CAS				
Chloride	69	60	mg/Kg	20	5/10/2022 10:52:07 PM	l 67381				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: ED				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/10/2022 7:59:45 PM	67371				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/10/2022 7:59:45 PM	67371				
Surr: DNOP	80.1	51.1-141	%Rec	1	5/10/2022 7:59:45 PM	67371				
EPA METHOD 8015D: GASOLINE RANGE	1				Analyst	: NSB				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/11/2022 11:10:15 AM	67372				
Surr: BFB	101	37.7-212	%Rec	1	5/11/2022 11:10:15 AN	67372				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	0.025	mg/Kg	1	5/11/2022 11:10:15 AM	67372				
Toluene	ND	0.050	mg/Kg	1	5/11/2022 11:10:15 AN	67372				
Ethylbenzene	ND	0.050	mg/Kg	1	5/11/2022 11:10:15 AN	67372				
Xylenes, Total	ND	0.10	mg/Kg	1	5/11/2022 11:10:15 AN	67372				
Surr: 4-Bromofluorobenzene	97.4	70-130	%Rec	1	5/11/2022 11:10:15 AM	67372				

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	<b>D:</b> S5	-EW	
Project: State D SWD 1		(	Collection Dat	e: 5/9	9/2022 10:19:00 AM	
Lab ID: 2205428-010	Matrix: SOIL		<b>Received Date</b>	e: 5/1	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	85	60	mg/Kg	20	5/10/2022 11:04:32 PM	67381
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	ED
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/10/2022 8:14:50 PM	67371
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/10/2022 8:14:50 PM	67371
Surr: DNOP	88.4	51.1-141	%Rec	1	5/10/2022 8:14:50 PM	67371
EPA METHOD 8015D: GASOLINE RANGE	1				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/11/2022 11:33:45 AM	67372
Surr: BFB	99.0	37.7-212	%Rec	1	5/11/2022 11:33:45 AM	67372
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	5/11/2022 11:33:45 AM	67372
Toluene	ND	0.050	mg/Kg	1	5/11/2022 11:33:45 AM	67372
Ethylbenzene	ND	0.050	mg/Kg	1	5/11/2022 11:33:45 AM	67372
Xylenes, Total	ND	0.099	mg/Kg	1	5/11/2022 11:33:45 AM	67372
Surr: 4-Bromofluorobenzene	96.6	70-130	%Rec	1	5/11/2022 11:33:45 AM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	<b>D:</b> S6	i-B	
Project: State D SWD 1		(	Collection Dat	e: 5/9	9/2022 10:21:00 AM	
Lab ID: 2205428-011	Matrix: SOIL		<b>Received Dat</b>	<b>e: 5</b> /1	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	64	60	mg/Kg	20	5/10/2022 11:16:56 PM	67381
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/10/2022 8:29:44 PM	67371
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/10/2022 8:29:44 PM	67371
Surr: DNOP	87.2	51.1-141	%Rec	1	5/10/2022 8:29:44 PM	67371
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/11/2022 12:20:42 PM	67372
Surr: BFB	102	37.7-212	%Rec	1	5/11/2022 12:20:42 PM	67372
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	5/11/2022 12:20:42 PM	67372
Toluene	ND	0.046	mg/Kg	1	5/11/2022 12:20:42 PM	67372
Ethylbenzene	ND	0.046	mg/Kg	1	5/11/2022 12:20:42 PM	67372
Xylenes, Total	ND	0.093	mg/Kg	1	5/11/2022 12:20:42 PM	67372
Surr: 4-Bromofluorobenzene	97.6	70-130	%Rec	1	5/11/2022 12:20:42 PM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	<b>D:</b> S6	-EW	
Project: State D SWD 1		(	Collection Dat	<b>e:</b> 5/9	9/2022 10:23:00 AM	
Lab ID: 2205428-012	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/1	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	100	60	mg/Kg	20	5/10/2022 11:29:21 PN	l 67381
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	ED
Diesel Range Organics (DRO)	27	9.8	mg/Kg	1	5/10/2022 8:44:31 PM	67371
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/10/2022 8:44:31 PM	67371
Surr: DNOP	90.9	51.1-141	%Rec	1	5/10/2022 8:44:31 PM	67371
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2022 12:44:10 PN	67372
Surr: BFB	96.3	37.7-212	%Rec	1	5/11/2022 12:44:10 PN	67372
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2022 12:44:10 PN	67372
Toluene	ND	0.048	mg/Kg	1	5/11/2022 12:44:10 PN	67372
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2022 12:44:10 PN	67372
Xylenes, Total	ND	0.095	mg/Kg	1	5/11/2022 12:44:10 PN	67372
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	5/11/2022 12:44:10 PN	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р
- Sample pH Not In Range RL Reporting Limit
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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	<b>D:</b> S6	-WWA	
Project: State D SWD 1		(	Collection Dat	e: 5/9	9/2022 10:25:00 AM	
Lab ID: 2205428-013	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/2	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	210	60	mg/Kg	20	5/10/2022 11:41:45 PM	67381
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: ED
Diesel Range Organics (DRO)	38	9.9	mg/Kg	1	5/10/2022 8:59:21 PM	67371
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/10/2022 8:59:21 PM	67371
Surr: DNOP	82.3	51.1-141	%Rec	1	5/10/2022 8:59:21 PM	67371
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/11/2022 1:07:38 PM	67372
Surr: BFB	96.0	37.7-212	%Rec	1	5/11/2022 1:07:38 PM	67372
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/11/2022 1:07:38 PM	67372
Toluene	ND	0.050	mg/Kg	1	5/11/2022 1:07:38 PM	67372
Ethylbenzene	ND	0.050	mg/Kg	1	5/11/2022 1:07:38 PM	67372
Xylenes, Total	ND	0.099	mg/Kg	1	5/11/2022 1:07:38 PM	67372
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	5/11/2022 1:07:38 PM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р
- Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	D:EF	3-N	
Project: State D SWD 1		(	Collection Dat	e: 5/9	9/2022 10:27:00 AM	
Lab ID: 2205428-014	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/1	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	970	60	mg/Kg	20	5/10/2022 11:54:09 PM	67381
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	ED
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/10/2022 9:14:05 PM	67371
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/10/2022 9:14:05 PM	67371
Surr: DNOP	82.2	51.1-141	%Rec	1	5/10/2022 9:14:05 PM	67371
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2022 1:31:08 PM	67372
Surr: BFB	96.8	37.7-212	%Rec	1	5/11/2022 1:31:08 PM	67372
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2022 1:31:08 PM	67372
Toluene	ND	0.048	mg/Kg	1	5/11/2022 1:31:08 PM	67372
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2022 1:31:08 PM	67372
Xylenes, Total	ND	0.096	mg/Kg	1	5/11/2022 1:31:08 PM	67372
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	5/11/2022 1:31:08 PM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	D: EF	3-М	
Project: State D SWD 1		(	Collection Dat	e: 5/9	9/2022 10:29:00 AM	
Lab ID: 2205428-015	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/2	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	84	60	mg/Kg	20	5/11/2022 12:06:34 AM	67381
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	ED
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/10/2022 9:28:54 PM	67371
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/10/2022 9:28:54 PM	67371
Surr: DNOP	83.7	51.1-141	%Rec	1	5/10/2022 9:28:54 PM	67371
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2022 1:54:40 PM	67372
Surr: BFB	98.5	37.7-212	%Rec	1	5/11/2022 1:54:40 PM	67372
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2022 1:54:40 PM	67372
Toluene	ND	0.048	mg/Kg	1	5/11/2022 1:54:40 PM	67372
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2022 1:54:40 PM	67372
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2022 1:54:40 PM	67372
Surr: 4-Bromofluorobenzene	97.2	70-130	%Rec	1	5/11/2022 1:54:40 PM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 9/2/2022 11:22:54 AM

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		C	ient Sample II	D:EE	3-S	
<b>Project:</b> State D SWD 1		(	Collection Dat	e: 5/9	9/2022 10:31:00 AM	
Lab ID: 2205428-016	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/1	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/11/2022 12:18:58 AN	l 67381
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/10/2022 9:43:30 PM	67371
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/10/2022 9:43:30 PM	67371
Surr: DNOP	80.3	51.1-141	%Rec	1	5/10/2022 9:43:30 PM	67371
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2022 2:18:16 PM	67372
Surr: BFB	96.9	37.7-212	%Rec	1	5/11/2022 2:18:16 PM	67372
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2022 2:18:16 PM	67372
Toluene	ND	0.048	mg/Kg	1	5/11/2022 2:18:16 PM	67372
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2022 2:18:16 PM	67372
Xylenes, Total	ND	0.096	mg/Kg	1	5/11/2022 2:18:16 PM	67372
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	5/11/2022 2:18:16 PM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р
- Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	D:W	B-N	
Project: State D SWD 1		(	Collection Dat	<b>e:</b> 5/9	9/2022 10:33:00 AM	
Lab ID: 2205428-017	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/1	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/11/2022 12:31:23 AM	67381
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/10/2022 9:58:37 PM	67371
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/10/2022 9:58:37 PM	67371
Surr: DNOP	82.3	51.1-141	%Rec	1	5/10/2022 9:58:37 PM	67371
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2022 2:41:51 PM	67372
Surr: BFB	104	37.7-212	%Rec	1	5/11/2022 2:41:51 PM	67372
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2022 2:41:51 PM	67372
Toluene	ND	0.048	mg/Kg	1	5/11/2022 2:41:51 PM	67372
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2022 2:41:51 PM	67372
Xylenes, Total	ND	0.096	mg/Kg	1	5/11/2022 2:41:51 PM	67372
Surr: 4-Bromofluorobenzene	97.7	70-130	%Rec	1	5/11/2022 2:41:51 PM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	D:W	B-M	
Project: State D SWD 1		(	Collection Dat	<b>e:</b> 5/9	9/2022 10:35:00 AM	
Lab ID: 2205428-018	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 5/1	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	98	60	mg/Kg	20	5/11/2022 1:08:36 AM	67381
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: ED
Diesel Range Organics (DRO)	17	10	mg/Kg	1	5/10/2022 10:13:42 PM	67371
Motor Oil Range Organics (MRO)	54	50	mg/Kg	1	5/10/2022 10:13:42 PM	67371
Surr: DNOP	90.7	51.1-141	%Rec	1	5/10/2022 10:13:42 PM	67371
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2022 3:05:25 PM	67372
Surr: BFB	102	37.7-212	%Rec	1	5/11/2022 3:05:25 PM	67372
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2022 3:05:25 PM	67372
Toluene	ND	0.048	mg/Kg	1	5/11/2022 3:05:25 PM	67372
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2022 3:05:25 PM	67372
Xylenes, Total	ND	0.096	mg/Kg	1	5/11/2022 3:05:25 PM	67372
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	5/11/2022 3:05:25 PM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205428

Date Reported: 5/13/2022

CLIENT: EOG		Cl	ient Sample II	D:W	B-S	
Project: State D SWD 1		(	Collection Dat	<b>e:</b> 5/9	9/2022 10:37:00 AM	
Lab ID: 2205428-019	Matrix: SOIL		<b>Received Date</b>	<b>e:</b> 5/1	10/2022 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	570	60	mg/Kg	20	5/10/2022 9:58:38 PM	67385
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/10/2022 10:28:53 PM	67371
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/10/2022 10:28:53 PM	67371
Surr: DNOP	91.4	51.1-141	%Rec	1	5/10/2022 10:28:53 PM	67371
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2022 3:29:03 PM	67372
Surr: BFB	94.7	37.7-212	%Rec	1	5/11/2022 3:29:03 PM	67372
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/11/2022 3:29:03 PM	67372
Toluene	ND	0.048	mg/Kg	1	5/11/2022 3:29:03 PM	67372
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2022 3:29:03 PM	67372
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2022 3:29:03 PM	67372
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	5/11/2022 3:29:03 PM	67372

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2205428
	12 May 22

13-May-22

Client: EOG				
Project: State	D SWD 1			
Sample ID: MB-67381	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 67381	RunNo: 87873		
Prep Date: 5/10/2022	Analysis Date: 5/10/2022	SeqNo: 3115002	Units: <b>mg/Kg</b>	
Analyte Chloride	Result PQL SPK value ND 1.5	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Sample ID: LCS-67381	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 67381	RunNo: 87873		
Prep Date: 5/10/2022	Analysis Date: 5/10/2022	SeqNo: 3115003	Units: <b>mg/Kg</b>	
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	
Chloride Sample ID: <b>MB-67385</b>	14 1.5 15.00 SampType: <b>mblk</b>	0 93.3 90 TestCode: <b>EPA Method</b>	-	
			-	
Sample ID: MB-67385	SampType: <b>mblk</b>	TestCode: EPA Method	-	
Sample ID: MB-67385 Client ID: PBS	SampType: mblk Batch ID: 67385 Analysis Date: 5/10/2022	TestCode: EPA Method RunNo: 87894	300.0: Anions	RPDLimit Qual
Sample ID: <b>MB-67385</b> Client ID: <b>PBS</b> Prep Date: <b>5/10/2022</b>	SampType: mblk Batch ID: 67385 Analysis Date: 5/10/2022	TestCode: <b>EPA Method</b> RunNo: <b>87894</b> SeqNo: <b>3115237</b>	300.0: Anions Units: mg/Kg	RPDLimit Qual
Sample ID: MB-67385 Client ID: PBS Prep Date: 5/10/2022 Analyte	SampType: <b>mblk</b> Batch ID: <b>67385</b> Analysis Date: <b>5/10/2022</b> Result PQL SPK value	TestCode: <b>EPA Method</b> RunNo: <b>87894</b> SeqNo: <b>3115237</b>	300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Sample ID: MB-67385 Client ID: PBS Prep Date: 5/10/2022 Analyte Chloride	SampType: <b>mblk</b> Batch ID: <b>67385</b> Analysis Date: <b>5/10/2022</b> Result PQL SPK value ND 1.5	TestCode: EPA Method RunNo: 87894 SeqNo: 3115237 SPK Ref Val %REC LowLimit	300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Sample ID: MB-67385 Client ID: PBS Prep Date: 5/10/2022 Analyte Chloride Sample ID: LCS-67385	SampType: <b>mblk</b> Batch ID: <b>67385</b> Analysis Date: <b>5/10/2022</b> Result PQL SPK value ND 1.5 SampType: <b>Ics</b>	TestCode: EPA Method RunNo: 87894 SeqNo: 3115237 SPK Ref Val %REC LowLimit TestCode: EPA Method	300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Sample ID: MB-67385 Client ID: PBS Prep Date: 5/10/2022 Analyte Chloride Sample ID: LCS-67385 Client ID: LCSS	SampType: mblk Batch ID: 67385 Analysis Date: 5/10/2022 Result PQL SPK value ND 1.5 SampType: Ics Batch ID: 67385 Analysis Date: 5/10/2022	TestCode: EPA Method RunNo: 87894 SeqNo: 3115237 SPK Ref Val %REC LowLimit TestCode: EPA Method RunNo: 87894	300.0: Anions Units: mg/Kg HighLimit %RPD 300.0: Anions	RPDLimit Qual

**Qualifiers:** 

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

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WO#:	2205428

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13-May-22

Client: EOG										
Project: State D	SWD 1									
Sample ID: MB-67371	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 67371			RunNo: 87866						
Prep Date: 5/10/2022	Analysis Date: 5/10/2022			SeqNo: 3115676			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	9.9		10.00		98.8	51.1	141			
Sample ID: LCS-67371	SampType: LCS TestCode: EPA M				PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID: LCSS	Batch ID: 67371			RunNo: 87866						
Prep Date: 5/10/2022	Analysis Date: 5/10/2022			SeqNo: 3115677			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.2	68.9	135			
Surr: DNOP	4.6		5.000		93.0	51.1	141			

**Qualifiers:** 

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

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

WO#:	2205428
	13-May-22

Client:	EOG										
Project:	State D	SWD 1									
Sample ID: ml	b-67372	SampT	Гуре: М	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PE	BS	Batcl	h ID: 67	372	F	RunNo: <b>8</b>	7896				
Prep Date: 5	/10/2022	Analysis D	Date: 5	/11/2022	S	SeqNo: 3	115282	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range O	rganics (GRO)	ND	5.0								
Surr: BFB		1000		1000		101	37.7	212			
Sample ID: Ics	s-67372	SampT	Гуре: <b>LC</b>	cs	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LC	SS	Batcl	h ID: 67	372	F	RunNo: <b>8</b>	7896				
Prep Date: 5	/10/2022	Analysis D	Date: 5	/11/2022	S	SeqNo: 3	116399	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range O	rganics (GRO)	27	5.0	25.00	0	108	72.3	137			
Surr: BFB		2100		1000		213	37.7	212			S
Sample ID: ml	b	SampT	Гуре: <b>М</b> І	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PE	BS	Batcl	h ID: <b>G</b> 8	87896	F	RunNo: 8	7896				
Prep Date:		Analysis D	Date: 5	/11/2022	S	SeqNo: 3	116402	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		1000		101	37.7	212			
Sample ID: 2.	5ug gro Ics	SampT	Гуре: <b>LC</b>	cs	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LC	SS	Batcl	h ID: <b>G</b> a	87896	F	RunNo: <b>8</b>	7896				
Prep Date:		Analysis D	Date: 5	/11/2022	S	SeqNo: 3	116403	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		2200		1000		221	37.7	212			S

**Qualifiers:** 

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

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

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WO#:	2205428
	13_May_22

13-May-22

Client: Project:	EOG State D S	WD 1									
Sample ID: mb-			ype: ME		Tes	tCode: EE	A Method	8021B: Volati			
Client ID: PBS			n ID: 67:			RunNo: 87			103		
Prep Date: 5/1	0/2022	Analysis D	oate: 5/	11/2022	,	SeqNo: 31	15291	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-Bromofluor	robenzene	0.99		1.000		99.4	70	130			
Sample ID: LCS	67372	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCS	S	Batcl	n ID: 67	372	F	RunNo: 87	7896				
Prep Date: 5/1	0/2022	Analysis D	)ate: 5/	11/2022	S	SeqNo: 31	116440	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.87	0.025	1.000	0	86.9	80	120			
Toluene		0.92	0.050	1.000	0	92.2	80	120			
Ethylbenzene		0.93	0.050	1.000	0	93.0	80	120			
Xylenes, Total		2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluor	robenzene	1.0		1.000		100	70	130			
Sample ID: mb		SampT	ype: <b>ME</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	6	Batcl	n ID: <b>B8</b>	7896	F	RunNo: 87	7896				
Prep Date:		Analysis D	)ate: 5/	11/2022	S	SeqNo: 31	116443	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluor	robenzene	0.98		1.000		98.3	70	130			
Sample ID: 100	ng btex lcs	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS Batch ID: B87896					F	RunNo: 87	7896				
Prep Date:		Analysis D	0ate: 5/	11/2022	SeqNo: 3116444 Units: %Rec						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluor	robenzene	0.99		1.000		99.2	70	130			

**Qualifiers:** 

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

PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- E Estimated value
- Analyte detected below quantitation limits J
- Sample pH Not In Range Р
- RL Reporting Limit

Received	by	<b>OCD</b> :	5/18/20	22 4	l:03:49	PM

ENVIRO ANALYS LABORA	IS	۸L		A L: 505-345-39 Website: www.	lbuquerq 75 FAX: .	ue, NM 505-34	5-4107	San	nple Log-In Check List	
Client Name: E	OG		Work	Order Numb	er: 2205	428			RcptNo: 1	
Received By:	Juan Roja	S	5/10/20	22 7:00:00 A	м		General Chemin	Eg		
Completed By:	Cheyenne	Cason	5/10/20	22 7:54:48 A	м		Chem	L		
Reviewed By:	PG :	5.10.2	<i>2</i>							
Chain of Custo	dy									
1. Is Chain of Cust	ody comple	ete?			Yes	$\checkmark$	No		Not Present	
2. How was the sa	mple delive	ered?			<u>Cour</u>	ier				
Log In 3. Was an attempt	made to co	ool the sample	2		Yes		No			
or the an atompt		on the sample			Tes		NO			
4. Were all samples	s received	at a temperatu	ire of >0° C	to 6.0°C	Yes	$\checkmark$	No		NA 🗌	
5. Sample(s) in pro	per contair	ner(s)?			Yes	$\checkmark$	No			
6. Sufficient sample	volume fo	r indicated tes	t(s)?		Yes	✓	No			
7. Are samples (exc	cept VOA a	nd ONG) prop	erly preserve	ed?	Yes	$\checkmark$	No			
8. Was preservative	e added to	bottles?			Yes		No	✓	NA 🗌	
9. Received at least	t 1 vial with	headspace <	1/4" for AQ V	OA?	Yes		No		NA 🔽	
10. Were any sample	e containei	rs received bro	ken?		Yes		No	✓	# of preserved	
11.Does paperwork					Yes	✓	No		bottles checked for pH:	
(Note discrepanc		•				-			(<2 or >12 unless note	d)
2. Are matrices corr			of Custody?		Yes		No		Adjusted?	
13. Is it clear what ar 14. Were all holding to 14. Were all holding to						<ul><li></li></ul>	No		Checked by: JA 5/10/2	2
(If no, notify custo					Yes	V	No		Checked by. JCS ((Crt	
Special Handling	g (if appl	licable)								
15. Was client notifie	ed of all dis	crepancies wi	th this order?		Yes		No		NA 🗹	
Person No	tified:			Date:				ongenaeur,		
By Whom:	Γ			Via:	🗌 eMa	il 🗌	Phone	] Fax	In Person	
Regarding:	Г			and an end of the second s						
Client Instr	uctions: 「			and the state of the second					normal and an an initial and an	
16. Additional remai	rks:									
17. <u>Cooler Informa</u>	tion									
	Temp °C	Condition	Seal Intact	Seal No	Seal Da	te	Signed	Ву	Yer of the second se	
1 1	.3	Good I	Not Present				-			

Page 1 of 1

	ANALYSIS LABORATORY	÷	37109	5 Fax 505-345-4107	Analysis Request				(00)			loride		×												Remarks: Bill to EOG Artesia	rag	e 11.	ccredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
			490	Te		()	оял	V/C	) N D K			3) X3 108:H		XX											1	Remarks			possibility.
Turn-Around Time:	□ Standard KRush 24- Mr.	Project Name:	Star D SWD # 1	5		Project Manager: W. Kierdorf	=		Sampler: N. Lenner	# of Coolers: 1	Cooler Temp(induding cr): 1.3- 0 こ 1. 3	Preservative HEAL No.		I whose Ice bei		0013	Cert	662	000	C&7	Cel	COC (	010	Cal	Decements Decements	Received by: Via: Date Time F	Via: Via: Date	24 anvit - 5/10/2 7,00	bcontracted to drifer accredited laboratories. This serves as notice of this
Chain-of-Custody Record	Client: EOG-Artesia / Ranger Env.		Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Ranger: PO Box 201179, Austin TX 78720	Phone #: 521-335-1785	email or Fax#: Will@RangerEnv.com	QA/QC Package:	Standard Level 4 (Full Validation)	Accreditation:	EDD (Type) Excel			Date Time  Matrix  Sample Name	000 24/22 (2) 53-N	0324 1 1 53 - W	N-42 200	0-h5     hEeo	03-10     CU-EW	0900 1 54 - 5W	0402 1 2 4 - UWA	0004 55-B	otou     55- WVA	1014 1 1 55-EN	1021 S.Co-12	1.1	Time: Relinquished by:	R.	5 applique l'ANNA 200	If necessary, samples submitted to Hall Environmental may be subcontracted to other a

#### **Released to Imaging: 9/2/2022 11:22:54 AM**



May 18, 2022

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

OrderNo.: 2205671

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Will Kierdorf:

RE: State D SWD 1

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/14/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205671

Date Reported: 5/18/2022

CLIENT: E	OG	0	Client Sample ID: S4-BA
Project: St	tate D SWD 1		Collection Date: 5/13/2022 10:30:00 AM
Lab ID: 22	205671-001	Matrix: MEOH (SOIL)	Received Date: 5/14/2022 9:45:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	390	60	mg/Kg	20	5/16/2022 12:19:54 PM	67476
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/16/2022 10:56:33 AM	67470
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/16/2022 10:56:33 AM	67470
Surr: DNOP	85.0	51.1-141	%Rec	1	5/16/2022 10:56:33 AM	67470
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	5/16/2022 11:15:44 AM	67457
Surr: BFB	94.8	37.7-212	%Rec	1	5/16/2022 11:15:44 AM	67457
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.015	mg/Kg	1	5/16/2022 11:15:44 AM	67457
Toluene	ND	0.031	mg/Kg	1	5/16/2022 11:15:44 AM	67457
Ethylbenzene	ND	0.031	mg/Kg	1	5/16/2022 11:15:44 AM	67457
Xylenes, Total	ND	0.061	mg/Kg	1	5/16/2022 11:15:44 AM	67457
Surr: 4-Bromofluorobenzene	94.0	70-130	%Rec	1	5/16/2022 11:15:44 AM	67457

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

Qualifiers:

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

Page 1 of 6

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**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2205671

Date Reported: 5/18/2022

CLIENT	EOG	Client Sample ID: EB-NA
<b>Project:</b>	State D SWD 1	Collection Date: 5/13/2022 10:43:00 AM
Lab ID:	2205671-002	Matrix: MEOH (SOIL) Received Date: 5/14/2022 9:45:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CAS
Chloride	610	60	mg/Kg	20	5/17/2022 10:45:36 AM	67476
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analys	t: <b>ED</b>
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/16/2022 11:37:34 AM	67470
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/16/2022 11:37:34 AM	67470
Surr: DNOP	81.8	51.1-141	%Rec	1	5/16/2022 11:37:34 AM	67470
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.4	mg/Kg	1	5/16/2022 11:39:09 AM	67457
Surr: BFB	97.8	37.7-212	%Rec	1	5/16/2022 11:39:09 AM	67457
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.027	mg/Kg	1	5/16/2022 11:39:09 AM	67457
Toluene	ND	0.054	mg/Kg	1	5/16/2022 11:39:09 AM	67457
Ethylbenzene	ND	0.054	mg/Kg	1	5/16/2022 11:39:09 AM	67457
Xylenes, Total	ND	0.11	mg/Kg	1	5/16/2022 11:39:09 AM	67457
Surr: 4-Bromofluorobenzene	95.0	70-130	%Rec	1	5/16/2022 11:39:09 AM	67457

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

PQL

1.5

Result 15

Client: Project:	EOG State D	SWD 1			
•				00.0. Aulaus	
Sample ID:		SampType: <b>mblk</b>	TestCode: EPA Method 3	00.0: Anions	
Client ID:	PBS	Batch ID: 67476	RunNo: 88022		
Prep Date:	5/16/2022	Analysis Date: 5/16/2022	SeqNo: 3121392	Units: <b>mg/Kg</b>	
Analyte		Result PQL SPK valu	ie SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID:	LCS-67476	SampType: Ics	TestCode: EPA Method 3	00.0: Anions	
Client ID:	LCSS	Batch ID: 67476	RunNo: 88022		
Prep Date:	5/16/2022	Analysis Date: 5/16/2022	SeqNo: 3121394	Units: mg/Kg	

LowLimit

90

HighLimit

110

SPK value SPK Ref Val %REC

0

97.2

15.00

Qualifiers:

Analyte

Chloride

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

2205671

18-May-22

WO#:

%RPD

RPDLimit

Qual

10

50.00

5.000

44

4.1

Client:EOGProject:State D	D SWD 1	
Sample ID: MB-67470	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 67470	RunNo: 88020
Prep Date: 5/16/2022	Analysis Date: 5/16/2022	SeqNo: 3119942 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	8.1 10.00	80.6 51.1 141
Sample ID: LCS-67470	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 67470	RunNo: 88020
Prep Date: 5/16/2022	Analysis Date: 5/16/2022	SeqNo: 3119943 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

0

87.6

82.6

68.9

51.1

135

141

Qualifiers:

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

Diesel Range Organics (DRO)

Surr: DNOP

- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

2205671

18-May-22

WO#:

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

WO#:	2205671
	18-Mav-22

Client: Project:	EOG State D	SWD 1								
Ŭ										
Sample ID:	mb-67457	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range		
Client ID:	PBS	Batch ID: 67	457	F	RunNo: <b>88</b>	3023				
Prep Date:	5/13/2022	Analysis Date: 5	16/2022	\$	SeqNo: 31	120460	Units: mg/Kg	J		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND 5.0								
Surr: BFB		1000	1000		99.9	37.7	212			
Sample ID:	lcs-67457	SampType: LC	s	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range	1	
Client ID:	LCSS	Batch ID: 67	457	F	RunNo: <b>88</b>	3023				
Prep Date:	5/13/2022	Analysis Date: 5/	16/2022	S	SeqNo: 31	20528	Units: mg/Kg	)		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	25 5.0	25.00	0	101	72.3	137			
Surr: BFB		2100	1000		206	37.7	212			
Sample ID:	lcs-67463	SampType: LC	s	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range	!	
Client ID:	LCSS	Batch ID: 67	463	F	RunNo: <b>88</b>	3053				
Prep Date:	5/14/2022	Analysis Date: 5	17/2022	5	SeqNo: 31	121609	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1900	1000		189	37.7	212			
Sample ID:	mb-67463	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range	1	
Client ID:	PBS	Batch ID: 67	463	F	RunNo: <b>88</b>	3053				
Prep Date:	5/14/2022	Analysis Date: 5	/17/2022	Ş	SeqNo: 31	121610	Units: %Rec			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		860	1000		85.6	37.7	212			

#### Qualifiers:

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

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

WO#:	2205671
	18-May-22

Client:	EOG										
Project:	State D	SWD 1									
Sample ID:	mb-67457	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	PBS	Batch	n ID: 674	457	F	RunNo: <b>88</b>	3023				
Prep Date:	5/13/2022	Analysis D	Date: 5/	16/2022	S	SeqNo: 31	20505	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-Brom	ofluorobenzene	0.95		1.000		95.3	70	130			
Sample ID:	lcs-67463	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	LCSS	Batch	n ID: 674	463	F	RunNo: <b>88</b>	3053				
Prep Date:	5/14/2022	Analysis D	Date: 5/	17/2022	5	SeqNo: 31	21613	Units: %Red	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	0.91		1.000		90.8	70	130			
Sample ID:	mb-67463	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	PBS	Batch	n ID: 674	463	F	RunNo: <b>88</b>	3053				
Prep Date:	5/14/2022	Analysis D	Date: 5/	17/2022	5	SeqNo: 31	21614	Units: %Red	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	0.91		1.000		91.1	70	130			
Sample ID:	lcs-67457	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	LCSS	Batch	n ID: 674	457	F	RunNo: <b>88</b>	3033				
Prep Date:	5/13/2022	Analysis D	Date: 5/	17/2022	5	SeqNo: 31	21632	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	85.1	80	120			
Toluene		0.87	0.050	1.000	0	87.3	80	120			
Ethylbenzene		0.87	0.050	1.000	0	86.8	80	120			
Xylenes, Total		2.6	0.10	3.000	0	85.6	80	120			
Surr: 4-Brom	ofluorobenzene	0.90		1.000		89.9	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page	121	of	129
1 1 5 0		~	

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-3-	nmental Analysis Labo 4901 Hawki Albuquerque, NM a 15-3975 FAX: 505-345 www.hallenvironmenta	ns NE 87109 <b>San</b> -4107	nple Log-In Check List	
Client Name: EOG	Work Order N	lumber: 2205671		RcptNo: 1	
Received By: Sean Livingston	5/14/2022 9:45:	00 AM	S-L	yot	
Completed By: Sean Livingston Reviewed By: $566561427$	5/14/2022 10:03 L	3:47 AM	Sal	yot	
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 sa	mples?	Yes 🔽	No 🗌		
4. Were all samples received at a temp	erature of >0° C to 6.0°C	Yes 🔽	No 🗌		
5. Sample(s) in proper container(s)?		Yes 🖌	No 🗌		
6. Sufficient sample volume for indicate	d 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 headspa	ce <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers receive	d broken?	Yes 🗌	No 🗹	# of preserved bottles checked	
<ol> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custo)</li> </ol>		Yes 🔽	No 🗌	for pH: (<2 or >12 unless noted	(Ľ
2. Are matrices correctly identified on Cl	nain of Custody?	Yes 🗹	No 🗌	Adjusted?	
3. Is it clear what analyses were request		Yes 🗹	No 🗌		
4. Were all holding times able to be met (If no, notify customer for authorizatio)		Yes 🗹	No 🗌	Checked by: Star Stud	2
Special Handling (if applicable)					
15. Was client notified of all discrepancie	s with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Da	ate:			
By Whom:	Vi	a: 🗌 eMail 🗌 F	Phone 🗌 Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u> <u>Cooler No</u> Temp °C Condition 1 5.9 Good	n Seal Intact Seal No	o Seal Date	Signed By		

Page 1 of 1

Received by OCD: 5/18/2022 4:03:49 PM

С	hain	-of-C	ustody Record	Turn-Aroun	d Time:		7 .					1							
Client: EOG-Artesia / Ranger Env.			□ Standar	d 🖄 Rusi	h <u>Sume Day</u>			E			EN							Received by	
				Project Nan	ne:	1										KA		ĸĭ	d by
			5 S 4th St, Artesia NM, 88210	State	O SLIF	$\pm 1$	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109									OCD			
Ranger:	PO Box	201179, A	Austin TX 78720	Project #: 53	375		1												D: 5
Phone #	#: 521-3	35-1785		-				16	91. 50	5-345-	Constanting of the	Contraction of the	COLOR DOLLARS	5-345	Concernation in the local division in the lo	7			/18/
email or	Fax#:	Will@Rar	igerEnv.com	Project Man	ager: W. Kier	dorf	Analysis Request									2022			
QA/QC P			□ Level 4 (Full Validation)					/ MRO)											4:03:49 PM
Accredit	AC	□ Az Co □ Other Excel	ompliance	Sampler: \ On Ice: # of Coolers	J. Kennet			RO / DRO	(300)										9 PM
Date	Time	Matrix	Sample Name	Cooler Temp Container Type and #		TILAL NO.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)										
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913/22 1	900	Cour	uno)	Suc .	course S	F14/22 9:45													Page 122

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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

# **ATTACHMENT 3 – NMOCD CORRESPONDENCE**

rom: Tina Huerta < Tina Huerta@eogresources.com > Sent: Monday, April 11, 2022 9:54 AM To: Robert.Hamlet@state.nm.us Cc: Artesia S&E Spill Remediation < Artesia S&E Spill Remediation@eogresources.com>; Artesia Regulatory < Artesia Regulatory@eogresources.com> Subject: State D SWD #1 (nAPP2111048003) Sampling Notification

6

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

State D SWD #1 30-015-21572 N-16-20S-24E Eddy County, NM nAPP2111048003

Sampling will begin at 10:00 a.m. on Wednesday, April 13, 2022, and be continuous through Thursday, April 14, 2022.

Thank you,

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

0 eog resources

Fight: Tina Huerta < Tina\_Huerta@eogresources.com >

Seit: Thursday, April 14, 2022 11:40 AM

To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>

Cis Artesia S&E Spill Remediation <<u>Artesia S&E Spill Remediation@eogresources.com</u>>; Artesia Regulatory <<u>Artesia Regulatory@eogresources.com</u>>;

Sigiect: [EXTERNAL] State D SWD 1 (nAPP2111048003) Sampling Notification

EXUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Morning,

**Released to Imaging:** 

9/2

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

State D SWD 1 30-015-21572 N-16-20S-24E Eddy County, New Mexico nAPP2111048003

Sampling will begin at 12:00 p.m. on Tuesday, April 19, 2022, and be continuous through Friday, April 22, 2022.

Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina huerta@eogresources.com</u>

### &eog resources

Tom: Tina Huerta < Tina Huerta@eogresources.com>

**ent:** Thursday, May 5, 2022 8:46 AM

to: Robert.Hamlet@state.nm.us; rmann@slo.state.nm.us; mnaranjo@slo.state.nm.us

C: Artesia S&E Spill Remediation <<u>Artesia\_S&E\_Spill\_Remediation@eogresources.com</u>>; Artesia Regulatory <<u>Artesia\_Regulatory@eogresources.com</u>> **bipiect:** State D SWD 1 (nAPP2111048003) Sampling Notification

Good Morning,

Released

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

State D SWD 1 N-16-20S-24E; Eddy County, NM nAPP2111048003

Sampling will begin at 9:00 a.m. on Monday, May 9, 2022.

Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina\_huerta@eogresources.com</u>



Tom: Miriam Morales <<u>Miriam\_Morales@eogresources.com</u>>
Tent: Wednesday, May 11, 2022 11:15 AM
Te

Good morning,

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

State D SWD #1 N-16-20S-24E; Eddy County, NM nAPP2111048003

Sampling will begin at 10:30 a.m. on Friday, May 13, 2022.

Thank you,

Miriam Morales

Brom: Tina Huerta <<u>Tina\_Huerta@eogresources.com</u>>

Sent: Wednesday, May 18, 2022 9:22 AM

So: Robert Hamlet@state.nm.us; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>; Jennifer.Nobui@state.nm.us; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@state.nm.us</u>; <u>mann@slo.state.nm.us</u>; <u>mnaranjo@slo.state.nm.us</u>; c: Artesia S&E Spill Remediation <<u>Artesia\_S&E\_Spill\_Remediation@eogresources.com</u>>; Artesia Regulatory <<u>Artesia\_Regulatory@eogresources.com</u>> Subject: State D SWD 1 (nAPP2111048003) Sampling Notification

Good Morning,

Released to Imaging: 9/2/20

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

State D SWD 1 N-16-20S-24E Eddy County, NM nAPP2111048003

Sampling will begin at 9:30 a.m. on Friday, May 20, 2022.

Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina\_huerta@eogresources.com</u>

**S**eog resources

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	108452
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By	Condition
rhamlet	The Remediation Plan is Conditionally Approved. All excavated soil that will be used for back-fill material will need to include 5-point composite sampling every 50 cubic yards to verify it meets Table 1 criteria standards. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Confirmation samples should be collected every 200 ft2. The work will need to occur in 90 days after the work plan has been approved.

CONDITIONS

Action 108452

Condition Date

9/2/2022