Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NRH2003548427
District RP	
Facility ID	30-025-37039
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Chase Settle
Title: Senior Safety and Environmental Representative

Signature: Chase Settle
Date: 08/10/2021

email: Chase_Settle@eogresources.com
Telephone: 575.748.4171

OCD Only

Received by: Chad Hensley
Date: 09/16/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Chad Hensley
Date: 09/16/2021

Printed Name: Chad Hensley
Title: Environmental Specialist Advanced

talonlpe.com • 866.742.0742

TALON LPE

Remediation and Closure Report

Mescalero ARL State #2
Lea County, New Mexico
API # 30-025-37039
Incident # NRH2003548427

Prepared For:

EOG Resources Inc.
104 S. 4th Street
Artesia, NM 88210

Prepared By:

Talon/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

August 10, 2021

Chase Settle
EOG Resources Inc.
104 S. 4th Street
Artesia, NM 88210

Subject: **Remediation and Closure Report**
Mescalero ARL State #2
Lea County, New Mexico
Incident # NRH2003548427

Dear Mr. Settle,

EOG Resources (EOG) contracted Talon/LPE (Talon) to perform site characterization and remediation services at the above referenced location. The incident description, remedial actions, confirmation soil sampling results and closure request is presented herein.

Site Information

The Mescalero ARL State #2 is located approximately 6.7 miles northeast of Caprock, New Mexico. The legal location for this release is Unit Letter 0, Section 2, Township 10 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 33.46968º and -103.63948º. Site maps are presented in Appendix I.

According to the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology consists of alluvial and eolian deposits, lower Pleistocene to middle Miocene in age. Drainage courses in this area are typically well drained.

Groundwater and Site Characterization

The United States Geological Survey (USGS) National Water Information System, indicates the nearest reported depth to groundwater is 53 feet below ground surface (bgs) at a distance of 1.42 miles from the subject site. Because this data is over 0.5 miles from the site, a boring (B-1) was drilled to a depth of 55 feet bgs on the southwest corner of the well pad to conclusively determine the presence or absence of groundwater at that depth. See Appendix II for the referenced boring log. The boring location is illustrated on Figure 2 (Appendix I). Groundwater was not encountered at 55 feet bgs following a 72-hour period after the installation of a temporary well. The FEMA Flood Map Service Center does not locate the Mescalero ARL State #2 in a 100-year flood plain. Further research of the Bureau of Land Management Karst data indicates that this site is not located within a high potential Karst area.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred in an area where the groundwater is less than 50 feet bgs in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

Approximate Depth to Groundwater	**> 55 feet/bgs**
☐Yes ☒No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
☐Yes ☒No	Within 200 feet of any lakebed, sinkhole or a playa lake
☐Yes ☒No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church
☐Yes ☒No	Within 500 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	Within 1000 feet of any freshwater well or spring
☐Yes ☒No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
☐Yes ☒No	Within 300 feet of a wetland
☐Yes ☒No	Within the area overlying a subsurface mine
☐Yes ☒No	Within an unstable area
☐Yes ☒No	Within a 100-year floodplain

Because the release occurred in a production area (well pad) and the verified depth to groundwater on location is greater than 55 feet bgs, the clean up criteria for this site is as follows.

Table I
Closure Criteria for Soils Impacted by a Release

Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
50-100 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	TPH (GRO/DRO)	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On December 6, 2019, five (5) barrels (bbls) of produced water were discharged onto the well pad due to a pressure gauge failure on the wellhead. The release was confined to the well pad and did not flow off location. A vacuum truck was dispatched and three (3) bbls of produced water were recovered. A backhoe was also initially utilized to scrape up the visually impacted area. Site maps of the release are presented in Appendix I. An initial C-141 spill notification was filed with the NMOCD and is attached in Appendix III.

Initial Site Characterization

On January 29, 2020, EOG personnel conducted an initial site assessment. The analytical results are highlighted in the following data table and the sample locations are shown on the attached Figure 1 (Appendix I).

Table I

01-29-2020 Soil Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 1,000 mg/kg			2,500 mg/kg	10,000 mg/kg
S-1.1	1/29/2020	1'	0.0512	ND	ND	122	ND	122	ND
S-2.1	1/29/2020	1'	0.0667	ND	ND	214	ND	214	30.5
S-3.1	1/29/2020	1'	0.145	ND	ND	1040	228	1268	249
S-4.1	1/29/2020	1'	0.168	ND	ND	1940	541	2481	500
S-5.1	1/29/2020	1'	ND	ND	ND	1030	207	1237	233
S-6.1	1/29/2020	1'	ND	ND	ND	867	164	1031	230
S-7.1	1/29/2020	1'	0.0923	ND	ND	866	137	1003	157
S-8.1	1/29/2020	1'	0.9916	ND	22.6	2040	257	2319.6	129
S-9.1	1/29/2020	1'	0.152	ND	ND	1110	167	1277	199
S-10.1	1/29/2020	1'	ND	ND	ND	432	104	536	127
S-11.1	1/29/2020	1'	ND	ND	ND	454	84.4	538.4	134
S-12.1	1/29/2020	1'	ND	ND	ND	ND	ND	0	ND
S-13.1	1/29/2020	1'	ND	ND	ND	ND	ND	0	ND
S-14.1	1/29/2020	1'	ND	ND	ND	ND	ND	0	ND
S-15.1	1/29/2020	1'	ND	ND	ND	593	175	768	235
S-16.1	1/29/2020	1'	ND	ND	ND	724	197	921	160
S-17.1	1/29/2020	1'	ND	ND	ND	265	83.9	348.9	70.4
S-18.1	1/29/2020	1'	ND	ND	ND	34.3	ND	34.3	77.2
SW-1.A.1	2/26/2021	1'	ND	ND	ND	ND	ND	0	50.2
SW-1.B.1	2/26/2021	1'	ND	ND	ND	174	155	329	93
SW-1.C.1	2/26/2021	1'	ND	ND	ND	ND	ND	0	89.9

ND-Analyte Not Detected SW-Side Wall Composite Sample

A remediation plan was subsequently submitted to the NMOCD by EOG personnel. A complete copy of this report is attached for reference in Appendix VI.

Subsequent Site Characterization Activities

On May 20, 2021, a boring (B-1) was drilled at the southwest corner of the well pad to conclusively determine the presence or absence of groundwater. The borehole was advanced to 55 feet bgs utilizing an air rotary drill rig. A 2-inch diameter temporary well constructed of schedule 40 PVC thread-coupled to 10-feet of machine slotted well screen was installed into the open borehole. 72 hours after installation, a Solinest water level meter was used to determine the presence or absence of groundwater (groundwater was not encountered). The temporary well was subsequently removed and the borehole backfilled with hole plug (bentonite chips) and hydrated.

On June 24, 2021, Talon equipment and personnel were mobilized to the site. A Geoprobe (direct push sampling technology) was utilized to collect further vertical delineation samples where required within the impacted areas. Background samples beyond the spill footprint were also collected to verify horizontal delineation. All soil samples were properly packaged in laboratory provided glassware, preserved, and transported to Hall Laboratories via chain of custody for analysis of Total Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons, TPH (EPA Method 8015M), and Volatile Organics, BTEX (EPA Method 8021B). Sample locations are shown on the attached Figure 2 (Appendix I) and the results of our sampling event are summarized on the following data table. See Appendix V for the complete report of laboratory results.

Table II

06-24-2021 Soil Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 1,000 mg/kg			2,500 mg/kg	10,000 mg/kg
S-3	6/24/2021	2'	ND	ND	ND	9.3	ND	9.3	ND
		4'	ND	ND	ND	ND	ND	0	69
S-4	6/24/2021	2'	ND	ND	ND	ND	ND	0	ND
		4'	ND	ND	ND	ND	ND	0	ND
S-5	6/24/2021	2'	ND	ND	ND	ND	ND	0	ND
		4'	ND	ND	ND	ND	ND	0	72
S-8	6/24/2021	2'	ND	ND	ND	ND	ND	0	ND
		4' R	ND	ND	ND	ND	ND	0	ND
S-9	6/24/2021	2'	ND	ND	ND	ND	ND	0	ND
		4'	ND	ND	ND	ND	ND	0	ND
BG-1	6/24/2021	0-1'	ND	ND	ND	ND	ND	0	100
BG-2	6/24/2021	0-1'	ND	ND	ND	ND	ND	0	140
BG-3	6/24/2021	0-1'	ND	ND	ND	ND	ND	0	ND
BG-4	6/24/2021	0-1'	ND	ND	ND	61	49	110	ND

ND-Analyte Not Detected BG-Background Sample

Remedial Actions

- The entire spill footprint was excavated to a depth of 1-2 feet bgs. Laboratory analysis confirms that NMOCD remediation guidelines for soil remediation were achieved.
- Background samples were collected in order to confirm horizontal delineation.
- The excavated area was backfilled with new caliche, machine compacted and contoured to match the surrounding location.
- All contaminated soil (approximately 165 yards) was transported to Gandy Marley, Inc., a NMOCD approved disposal facility.
- A Final C-141 Form is attached in Appendix III.

Closure

Based on this site characterization, verified minimum depth to groundwater greater than 55 feet bgs, completed remedial actions, and confirmation analytical results, we request that no further actions be required and that closure of this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

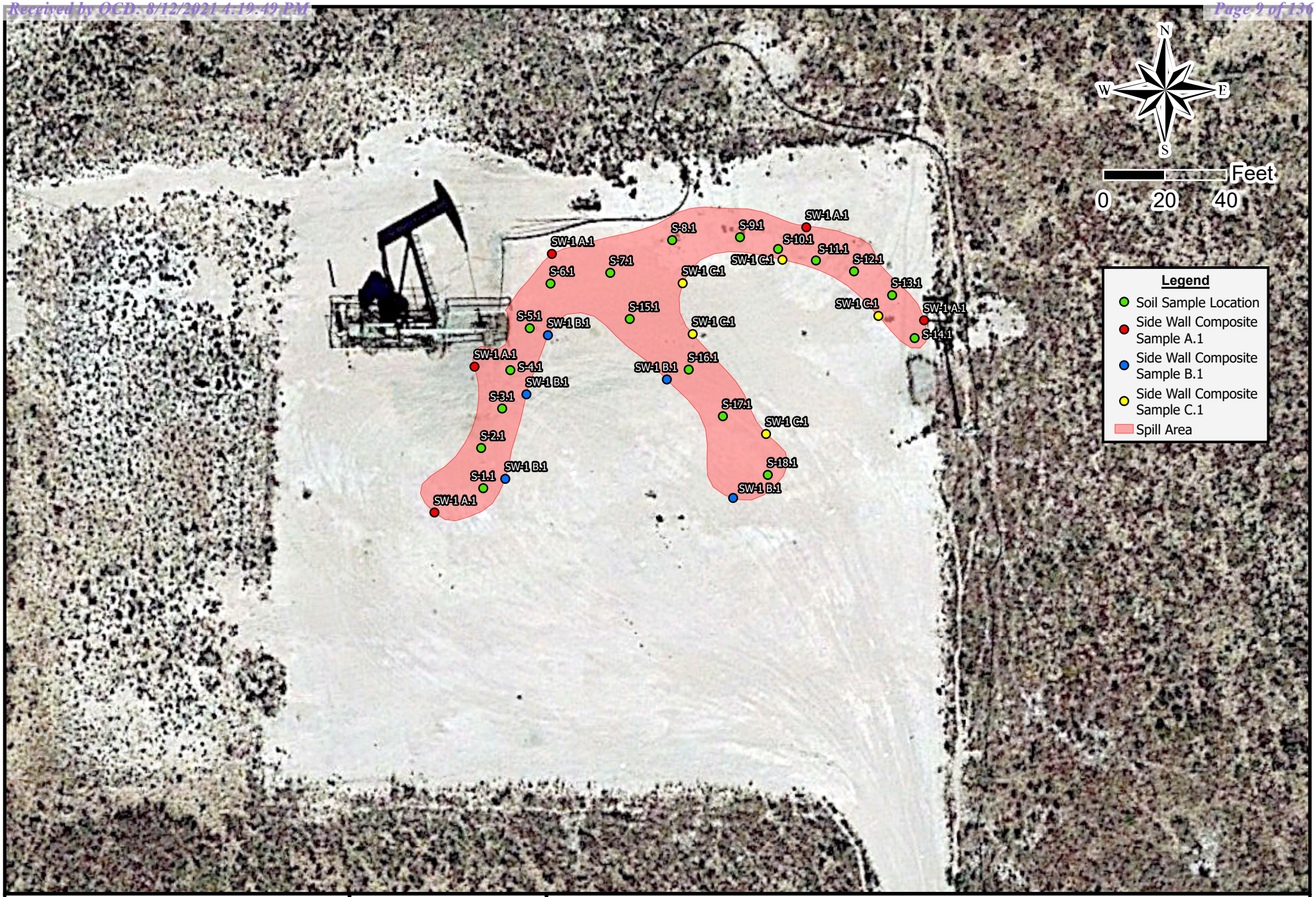
Talon/LPE

David J. Adkins
Regional Manager

Attachments:
Appendix I Site Plans
Appendix II Boring Log
Appendix III C-141 Forms
Appendix IV Photographic Documentation
Appendix V Laboratory Data
Appendix VI Initial Remediation Plan

APPENDIX I

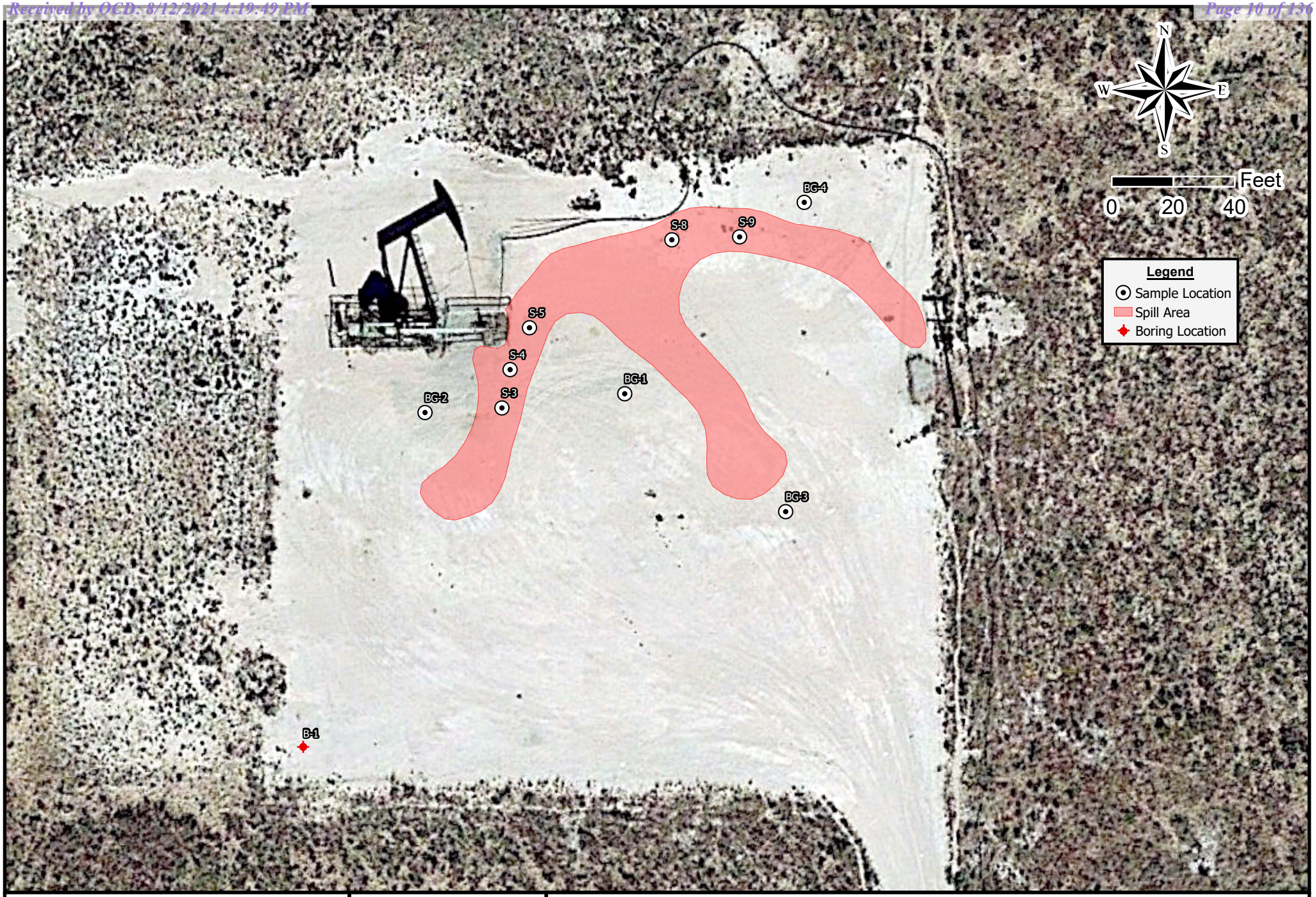
SITE PLANS



TALON LPE

Drafted: 8/9/2021
1 in = 40 ft
Drafted By: JAI

EOG Resources, Inc.
Mescalero ARL St. #2
API# 30-025-37039
Lea County, New Mexico
Figure 1 - Initial Sample Map



TALON LPE

Drafted: 8/9/2021
1 in = 40 ft
Drafted By: IJM

EOG Resources, Inc.
Mescalero ARL St. #2
API# 30-025-37039
Lea County, New Mexico
Figure 2 - Supplemental Sample Map

APPENDIX II

BORING LOG

BORING LOG

Project No.: 700438.239.01

Site Name: Mescalero ARL State #2

Location: Chavez County, New Mexico

Date: 5/20/2021

Boring Number: B-1

Weather: Clear, Temp.: 75°F

Logger: D. Adkins

Field Instrument: NA

Latitude: 33.46929 N

Longitude: -103.639620 W

Driller: D. Londagin

Rig Type: Reich Drill

Bit Size: 5-7/8”

Drilling Method: Air Rotary

Sample Retrieval Method: Drill Cuttings

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	USCS	Composition (%)	**Sample Material/Comments** Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
	☐	0-10’				Tan/Brown fine Sand (SP) and caliche	**None** Slight Mod. Strong	
	☐	10-30’				Light red/brown to gray fine Sand (SP)	**None** Slight Mod. Strong	
	☐	30-45’				Gray/brown slightly clayey find Sand (SP-SC)	**None** Slight Mod. Strong	
	☐	45-55’				Dry, dark brown clayey Sand (SC)	**None** Slight Mod. Strong	
	☐					__ TD 55’ __	None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	

Surface Elevation: _____

Notes: Groundwater Not Encountered @ 55’ BGS – 72 hr.

Logger Initials: DJA

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	USCS	Composition (%)	**Sample Material/Comments** Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	

Notes: The borehole was advanced to 55' below ground surface (bgs). A 2-inch diameter temporary well constructed of schedule 40 PVC thread coupled to 10-feet of machine slotted well screen was installed in the open borehole. 72-hours after installation, a Solinest water level meter was utilized to determine the presence or absence of groundwater. The temporary well casing was subsequently removed and the bore hole backfilled with hole plug (bentonite chips) and hydrated.

APPENDIX III

C-141 FORMS

State of New Mexico
Oil Conservation Division

Incident ID	NRH2003548427
District RP	
Facility ID	30-025-37039
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Chase Settle

Title: Senior Safety and Environmental Representative

Signature: Chase Settle

Date: 08/10/2021

email: Chase_Settle@eogresources.com

Telephone: 575.748.4171

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nRH2003548427
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Robert Asher	Contact Telephone 575-748-4217
Contact email bob_asher@eogresources.com	Incident # *(assigned by OCD)*
Contact mailing address 104 S. 4th Street, Artesia, New Mexico	

Location of Release Source

Latitude 33.46968 Longitude -103.63948
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mescalero ARL State #2	Site Type: Well Pad
Date Release: Discovered 12/6/2019	API# 30-025-37039

Unit Letter	Section	Township	Range	County
O	2	10S	32E	Lea

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)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 3
	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;
Pressure gauge on wellhead for tubing failed causing release of produced water on location.

State of New Mexico
Oil Conservation Division

Incident ID	nRH2003548427
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice 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

☒ The source of the release has been stopped.
☒ 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.
☒ 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: Robert Asher Title: Environmental Supervisor

Signature: Date: 2/4/2020

email: bob_asher@eogresources.com Telephone: 575-748-4217

OCD Only

Received by: Cristina Eads Date: 03-17-2020

State of New Mexico
Oil Conservation Division

Incident ID	
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Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	53' (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 **not** 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 ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

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Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
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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: Robert Asher Title: Environmental Supervisor

Signature: Date: 3/3/2020

email: bob_asher@eogresources.com Telephone: 575-748-4217

OCD Only

Received by: Date:

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Robert Asher Title: Environmental Supervisor

Signature: [signature] Date: 3/3/2020

email: bob_asher@eogresources.com Telephone: 575-748-4217

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

Mescalero ARL State #2
Lea County, New Mexico

Photograph No.1 Description:

Excavation

Photograph No.2 Description:

Excavation

Photograph No.3 Description:

Excavation

Photograph No.4 Description:

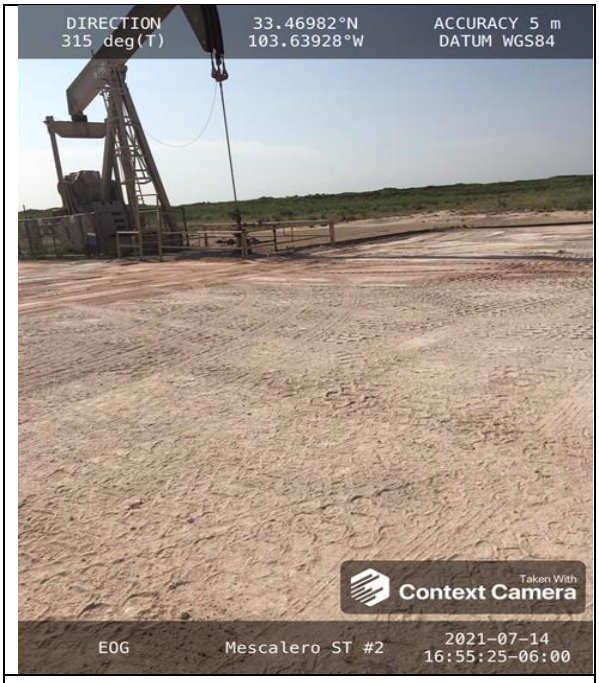
Excavation

Photograph No.5 Description:

Backfilled Excavation

Photograph No.6 Description:

Backfilled Excavation



Photograph No.7 Description:

Backfilled Excavation

Photograph No.8 Description:

Backfilled Excavation

APPENDIX V

LABORATORY DATA

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 01, 2021

David Adkins

Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: Mescalero ARL 2 Mescalero OrderNo.: 2106E30

Dear David Adkins:

Hall Environmental Analysis Laboratory received 14 sample(s) on 6/26/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-3 2'
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 10:00:00 AM
Lab ID: 2106E30-001 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/29/2021 11:28:37 AM	60967
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	9.3	9.1		mg/Kg	1	6/28/2021 8:34:08 AM	60960
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/28/2021 8:34:08 AM	60960
Surr: DNOP	101	70-130		%Rec	1	6/28/2021 8:34:08 AM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	6/28/2021 8:56:31 AM	G79418
Surr: BFB	98.7	70-130		%Rec	1	6/28/2021 8:56:31 AM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	6/28/2021 8:56:31 AM	B79418
Toluene	ND	0.034		mg/Kg	1	6/28/2021 8:56:31 AM	B79418
Ethylbenzene	ND	0.034		mg/Kg	1	6/28/2021 8:56:31 AM	B79418
Xylenes, Total	ND	0.068		mg/Kg	1	6/28/2021 8:56:31 AM	B79418
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	6/28/2021 8:56:31 AM	B79418

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

Qualifiers:

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

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-3 4'
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 10:09:00 AM
Lab ID: 2106E30-002 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	69	60		mg/Kg	20	6/29/2021 11:41:02 AM	60967
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/28/2021 9:10:38 AM	60960
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/28/2021 9:10:38 AM	60960
Surr: DNOP	103	70-130		%Rec	1	6/28/2021 9:10:38 AM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/28/2021 9:20:06 AM	G79418
Surr: BFB	99.2	70-130		%Rec	1	6/28/2021 9:20:06 AM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	6/28/2021 9:20:06 AM	B79418
Toluene	ND	0.035		mg/Kg	1	6/28/2021 9:20:06 AM	B79418
Ethylbenzene	ND	0.035		mg/Kg	1	6/28/2021 9:20:06 AM	B79418
Xylenes, Total	ND	0.070		mg/Kg	1	6/28/2021 9:20:06 AM	B79418
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/28/2021 9:20:06 AM	B79418

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

Qualifiers:

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

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-4 2'
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 10:30:00 AM
Lab ID: 2106E30-003 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/29/2021 11:53:27 AM	60967
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/28/2021 10:11:58 AM	60960
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/28/2021 10:11:58 AM	60960
Surr: DNOP	106	70-130		%Rec	1	6/28/2021 10:11:58 AM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	6/28/2021 9:43:50 AM	G79418
Surr: BFB	98.3	70-130		%Rec	1	6/28/2021 9:43:50 AM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	6/28/2021 9:43:50 AM	B79418
Toluene	ND	0.038		mg/Kg	1	6/28/2021 9:43:50 AM	B79418
Ethylbenzene	ND	0.038		mg/Kg	1	6/28/2021 9:43:50 AM	B79418
Xylenes, Total	ND	0.076		mg/Kg	1	6/28/2021 9:43:50 AM	B79418
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/28/2021 9:43:50 AM	B79418

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

Qualifiers:

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

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-4 4'
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 10:36:00 AM
Lab ID: 2106E30-004 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/29/2021 12:05:52 PM	60967
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/28/2021 10:24:06 AM	60960
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/28/2021 10:24:06 AM	60960
Surr: DNOP	103	70-130		%Rec	1	6/28/2021 10:24:06 AM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	6/28/2021 10:07:27 AM	G79418
Surr: BFB	100	70-130		%Rec	1	6/28/2021 10:07:27 AM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	6/28/2021 10:07:27 AM	B79418
Toluene	ND	0.042		mg/Kg	1	6/28/2021 10:07:27 AM	B79418
Ethylbenzene	ND	0.042		mg/Kg	1	6/28/2021 10:07:27 AM	B79418
Xylenes, Total	ND	0.084		mg/Kg	1	6/28/2021 10:07:27 AM	B79418
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/28/2021 10:07:27 AM	B79418

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

Qualifiers:

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

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-5 2'
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 10:50:00 AM
Lab ID: 2106E30-005 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/29/2021 12:43:05 PM	60967
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	6/28/2021 10:36:23 AM	60960
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/28/2021 10:36:23 AM	60960
Surr: DNOP	104	70-130		%Rec	1	6/28/2021 10:36:23 AM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	6/28/2021 10:31:09 AM	G79418
Surr: BFB	101	70-130		%Rec	1	6/28/2021 10:31:09 AM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.015		mg/Kg	1	6/28/2021 10:31:09 AM	B79418
Toluene	ND	0.030		mg/Kg	1	6/28/2021 10:31:09 AM	B79418
Ethylbenzene	ND	0.030		mg/Kg	1	6/28/2021 10:31:09 AM	B79418
Xylenes, Total	ND	0.060		mg/Kg	1	6/28/2021 10:31:09 AM	B79418
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	6/28/2021 10:31:09 AM	B79418

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

Qualifiers:

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

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-5 4'
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 10:56:00 AM
Lab ID: 2106E30-006 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	72	60		mg/Kg	20	6/29/2021 12:55:29 PM	60967
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/28/2021 10:48:27 AM	60960
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/28/2021 10:48:27 AM	60960
Surr: DNOP	107	70-130		%Rec	1	6/28/2021 10:48:27 AM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/28/2021 10:54:42 AM	G79418
Surr: BFB	104	70-130		%Rec	1	6/28/2021 10:54:42 AM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	6/28/2021 10:54:42 AM	B79418
Toluene	ND	0.035		mg/Kg	1	6/28/2021 10:54:42 AM	B79418
Ethylbenzene	ND	0.035		mg/Kg	1	6/28/2021 10:54:42 AM	B79418
Xylenes, Total	ND	0.070		mg/Kg	1	6/28/2021 10:54:42 AM	B79418
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/28/2021 10:54:42 AM	B79418

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

Qualifiers:

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

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-8 2'
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 11:10:00 AM
Lab ID: 2106E30-007 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/29/2021 1:07:54 PM	60967
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	7.9		mg/Kg	1	6/28/2021 11:00:51 AM	60960
Motor Oil Range Organics (MRO)	ND	40		mg/Kg	1	6/28/2021 11:00:51 AM	60960
Surr: DNOP	110	70-130		%Rec	1	6/28/2021 11:00:51 AM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	6/28/2021 11:18:15 AM	G79418
Surr: BFB	101	70-130		%Rec	1	6/28/2021 11:18:15 AM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	6/28/2021 11:18:15 AM	B79418
Toluene	ND	0.036		mg/Kg	1	6/28/2021 11:18:15 AM	B79418
Ethylbenzene	ND	0.036		mg/Kg	1	6/28/2021 11:18:15 AM	B79418
Xylenes, Total	ND	0.072		mg/Kg	1	6/28/2021 11:18:15 AM	B79418
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/28/2021 11:18:15 AM	B79418

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

Qualifiers:

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

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-8 4'R
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 11:16:00 AM
Lab ID: 2106E30-008 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	61		mg/Kg	20	6/29/2021 1:20:19 PM	60967
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/28/2021 11:12:58 AM	60960
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/28/2021 11:12:58 AM	60960
Surr: DNOP	104	70-130		%Rec	1	6/28/2021 11:12:58 AM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/28/2021 11:41:42 AM	G79418
Surr: BFB	102	70-130		%Rec	1	6/28/2021 11:41:42 AM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/28/2021 11:41:42 AM	B79418
Toluene	ND	0.046		mg/Kg	1	6/28/2021 11:41:42 AM	B79418
Ethylbenzene	ND	0.046		mg/Kg	1	6/28/2021 11:41:42 AM	B79418
Xylenes, Total	ND	0.091		mg/Kg	1	6/28/2021 11:41:42 AM	B79418
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/28/2021 11:41:42 AM	B79418

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

Qualifiers:

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

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-9 2'
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 11:30:00 AM
Lab ID: 2106E30-009 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/29/2021 1:32:44 PM	60967
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	6/28/2021 11:25:08 AM	60960
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/28/2021 11:25:08 AM	60960
Surr: DNOP	103	70-130		%Rec	1	6/28/2021 11:25:08 AM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	6/28/2021 12:05:11 PM	G79418
Surr: BFB	99.8	70-130		%Rec	1	6/28/2021 12:05:11 PM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	6/28/2021 12:05:11 PM	B79418
Toluene	ND	0.033		mg/Kg	1	6/28/2021 12:05:11 PM	B79418
Ethylbenzene	ND	0.033		mg/Kg	1	6/28/2021 12:05:11 PM	B79418
Xylenes, Total	ND	0.066		mg/Kg	1	6/28/2021 12:05:11 PM	B79418
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/28/2021 12:05:11 PM	B79418

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

Qualifiers:

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

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** S-9 4'
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 11:36:00 AM
Lab ID: 2106E30-010 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/29/2021 1:45:09 PM	60967
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/28/2021 11:37:21 AM	60960
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/28/2021 11:37:21 AM	60960
Surr: DNOP	104	70-130		%Rec	1	6/28/2021 11:37:21 AM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	6/28/2021 12:28:45 PM	G79418
Surr: BFB	105	70-130		%Rec	1	6/28/2021 12:28:45 PM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	6/28/2021 12:28:45 PM	B79418
Toluene	ND	0.037		mg/Kg	1	6/28/2021 12:28:45 PM	B79418
Ethylbenzene	ND	0.037		mg/Kg	1	6/28/2021 12:28:45 PM	B79418
Xylenes, Total	ND	0.075		mg/Kg	1	6/28/2021 12:28:45 PM	B79418
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	6/28/2021 12:28:45 PM	B79418

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

Qualifiers:

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

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** BG-1 0-1'
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 11:55:00 AM
Lab ID: 2106E30-011 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	100	60		mg/Kg	20	6/29/2021 1:57:34 PM	60967
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/28/2021 11:49:31 AM	60960
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/28/2021 11:49:31 AM	60960
Surr: DNOP	104	70-130		%Rec	1	6/28/2021 11:49:31 AM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	6/28/2021 1:39:25 PM	G79418
Surr: BFB	98.6	70-130		%Rec	1	6/28/2021 1:39:25 PM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	6/28/2021 1:39:25 PM	B79418
Toluene	ND	0.039		mg/Kg	1	6/28/2021 1:39:25 PM	B79418
Ethylbenzene	ND	0.039		mg/Kg	1	6/28/2021 1:39:25 PM	B79418
Xylenes, Total	ND	0.078		mg/Kg	1	6/28/2021 1:39:25 PM	B79418
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	6/28/2021 1:39:25 PM	B79418

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

Qualifiers:

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

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** BG-2 0-1'
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 12:15:00 PM
Lab ID: 2106E30-012 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	140	60		mg/Kg	20	6/29/2021 2:09:58 PM	60967
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/28/2021 12:01:38 PM	60960
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/28/2021 12:01:38 PM	60960
Surr: DNOP	103	70-130		%Rec	1	6/28/2021 12:01:38 PM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	6/28/2021 2:03:01 PM	G79418
Surr: BFB	99.3	70-130		%Rec	1	6/28/2021 2:03:01 PM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	6/28/2021 2:03:01 PM	B79418
Toluene	ND	0.042		mg/Kg	1	6/28/2021 2:03:01 PM	B79418
Ethylbenzene	ND	0.042		mg/Kg	1	6/28/2021 2:03:01 PM	B79418
Xylenes, Total	ND	0.084		mg/Kg	1	6/28/2021 2:03:01 PM	B79418
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/28/2021 2:03:01 PM	B79418

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

Qualifiers:

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

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** BG-3 0-1'
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 12:30:00 PM
Lab ID: 2106E30-013 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	59		mg/Kg	20	6/29/2021 2:22:22 PM	60967
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/28/2021 12:13:46 PM	60960
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/28/2021 12:13:46 PM	60960
Surr: DNOP	103	70-130		%Rec	1	6/28/2021 12:13:46 PM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/28/2021 2:26:40 PM	G79418
Surr: BFB	101	70-130		%Rec	1	6/28/2021 2:26:40 PM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/28/2021 2:26:40 PM	B79418
Toluene	ND	0.048		mg/Kg	1	6/28/2021 2:26:40 PM	B79418
Ethylbenzene	ND	0.048		mg/Kg	1	6/28/2021 2:26:40 PM	B79418
Xylenes, Total	ND	0.095		mg/Kg	1	6/28/2021 2:26:40 PM	B79418
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/28/2021 2:26:40 PM	B79418

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

Qualifiers:

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

Analytical Report
Lab Order **2106E30**
Date Reported: **7/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia **Client Sample ID:** BG-4 0-1'
Project: Mescalero ARL 2 Mescalero **Collection Date:** 6/24/2021 1:00:00 PM
Lab ID: 2106E30-014 **Matrix:** MEOH (SOIL) **Received Date:** 6/26/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/29/2021 2:34:47 PM	60993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	61	8.2		mg/Kg	1	6/28/2021 12:25:58 PM	60960
Motor Oil Range Organics (MRO)	49	41		mg/Kg	1	6/28/2021 12:25:58 PM	60960
Surr: DNOP	103	70-130		%Rec	1	6/28/2021 12:25:58 PM	60960
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	6/28/2021 2:50:07 PM	G79418
Surr: BFB	99.3	70-130		%Rec	1	6/28/2021 2:50:07 PM	G79418
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	6/28/2021 2:50:07 PM	B79418
Toluene	ND	0.045		mg/Kg	1	6/28/2021 2:50:07 PM	B79418
Ethylbenzene	ND	0.045		mg/Kg	1	6/28/2021 2:50:07 PM	B79418
Xylenes, Total	ND	0.090		mg/Kg	1	6/28/2021 2:50:07 PM	B79418
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/28/2021 2:50:07 PM	B79418

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106E30**
01-Jul-21

Client: Talon Artesia
Project: Mescalero ARL 2 Mescalero

Sample ID: **MB-60967** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **60967** RunNo: **79428**
Prep Date: **6/28/2021** Analysis Date: **6/29/2021** SeqNo: **2792923** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-60967** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **60967** RunNo: **79428**
Prep Date: **6/28/2021** Analysis Date: **6/29/2021** SeqNo: **2792924** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Sample ID: **MB-60993** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **60993** RunNo: **79428**
Prep Date: **6/29/2021** Analysis Date: **6/29/2021** SeqNo: **2792934** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-60993** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **60993** RunNo: **79428**
Prep Date: **6/29/2021** Analysis Date: **6/29/2021** SeqNo: **2792935** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106E30**
01-Jul-21

Client: Talon Artesia
Project: Mescalero ARL 2 Mescalero

Sample ID: **MB-60960** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **60960** RunNo: **79402**
Prep Date: **6/28/2021** Analysis Date: **6/28/2021** SeqNo: **2791200** 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	9.8		10.00		97.8	70	130			

Sample ID: **LCS-60960** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **60960** RunNo: **79402**
Prep Date: **6/28/2021** Analysis Date: **6/28/2021** SeqNo: **2791201** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.5	68.9	141			
Surr: DNOP	5.2		5.000		105	70	130			

Sample ID: **2106E30-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-3 2'** Batch ID: **60960** RunNo: **79402**
Prep Date: **6/28/2021** Analysis Date: **6/28/2021** SeqNo: **2791219** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	8.9	44.56	9.340	84.0	15	184			
Surr: DNOP	4.7		4.456		105	70	130			

Sample ID: **2106E30-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-3 2'** Batch ID: **60960** RunNo: **79402**
Prep Date: **6/28/2021** Analysis Date: **6/28/2021** SeqNo: **2791220** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	8.7	43.48	9.340	67.4	15	184	19.0	23.9	
Surr: DNOP	4.4		4.348		102	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106E30**
01-Jul-21

Client: Talon Artesia
Project: Mescalero ARL 2 Mescalero

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G79418**	RunNo: **79418**							
Prep Date:	Analysis Date: **6/28/2021**	SeqNo: **2791550**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **G79418**	RunNo: **79418**							
Prep Date:	Analysis Date: **6/28/2021**	SeqNo: **2791551**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	78.6	131			
Surr: BFB	1200		1000		118	70	130			

Sample ID: **2106e30-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **S-3 2'**	Batch ID: **G79418**	RunNo: **79418**							
Prep Date:	Analysis Date: **6/28/2021**	SeqNo: **2791566**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.4	16.89	0	98.8	61.3	114			
Surr: BFB	780		675.7		116	70	130			

Sample ID: **2106e30-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **S-3 2'**	Batch ID: **G79418**	RunNo: **79418**							
Prep Date:	Analysis Date: **6/28/2021**	SeqNo: **2791567**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.4	16.89	0	109	61.3	114	9.67	20	
Surr: BFB	810		675.7		121	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106E30**
01-Jul-21

Client: Talon Artesia
Project: Mescalero ARL 2 Mescalero

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **B79418** RunNo: **79418**
Prep Date: Analysis Date: **6/28/2021** SeqNo: **2791594** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **B79418** RunNo: **79418**
Prep Date: Analysis Date: **6/28/2021** SeqNo: **2791595** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: **2106e30-002ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-3 4'** Batch ID: **B79418** RunNo: **79418**
Prep Date: Analysis Date: **6/28/2021** SeqNo: **2791610** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.018	0.7042	0	101	80	120			
Toluene	0.72	0.035	0.7042	0	102	80	120			
Ethylbenzene	0.72	0.035	0.7042	0	102	80	120			
Xylenes, Total	2.1	0.070	2.113	0	101	80	120			
Surr: 4-Bromofluorobenzene	0.75		0.7042		107	70	130			

Sample ID: **2106e30-002amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-3 4'** Batch ID: **B79418** RunNo: **79418**
Prep Date: Analysis Date: **6/28/2021** SeqNo: **2791611** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.018	0.7042	0	99.6	80	120	1.82	20	
Toluene	0.71	0.035	0.7042	0	101	80	120	1.41	20	
Ethylbenzene	0.71	0.035	0.7042	0	100	80	120	1.05	20	
Xylenes, Total	2.1	0.070	2.113	0	101	80	120	0.581	20	
Surr: 4-Bromofluorobenzene	0.78		0.7042		111	70	130	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Talon Artesia | Work Order Number: 2106E30 | RcptNo: 1

Received By: Juan Rojas 6/26/2021 8:30:00 AM

Completed By: Juan Rojas 6/26/2021 9:25:39 AM

Reviewed By: JR 6/26/21

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: DAD 6.26.21

Special Handling (if applicable)

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

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good				
2	1.7	Good				

Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W. Texas Ave

Artesia, NM 88210

Phone #: 575.746.8768

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 24hr

Project Name: Mescalero ARL St. #2 (Mescalero)

Project #: 700438.239.01

Project Manager: D. Adkins

Sampler: M. Collier

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 2.3-0.2=2.1

1.9-0.2=1.7

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	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2106E30	TPH	BTEX	Chlorides
6/24/2021	10:00	Soil	S-3 2'	Glass/ 1	Ice/ Cool	-001	X	X	X
	10:09		S-3 4'			-002			
	10:30		S-4 2'			-003			
	10:36		S-4 4'			-004			
	10:50		S-5 2'			-005			
	10:56		S-5 4'			-006			
	11:10		S-8 2'			-007			
	11:16		S-8 4' R			-008			
	11:30		S-9 2'			-009			
	11:36		S-9 4'			-010			
	11:55		BG-1 0-1'			-011			
	12:15		BG-2 0-1'			-012			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/24/21	1130				6/25/21	1130
6/24/21	1900			courier	6/25/21	8:30

Remarks: Pg 1 of 2

BILL TO EOG

ATTN: CHASE SETTLE

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

Chain-of-Custody Record

Client: Talon LPE

Mailing Address: 408 W. Texas Ave

Artesia, NM 88210

Phone #: 575.746.8768

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 24hr

Project Name: Mescalero ARL St. #2 (Mescalero)

Project #: 700438.239.01

Project Manager: D. Adkins

Sampler: M. Collier

On Ice: ☐ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 2.7-0.2=2.1 1.9-0.2=1.7

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2106E30	Analysis Request: TPH	BTEX	Chlorides
6/24/2021	12:30	Soil	BG-3 0-1'	Glass/ 1	Ice/ Cool	-013	X	X	X
6/24/2021	1:00	Soil	BG-4 0-1'	Glass/ 1	Ice/ Cool	-014	X	X	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
					6/25/21	1130
6/25/21	1900				6/26/21	8:30

Remarks: Pg 2 of 2

BILL TO EOG

ATTN: CHASE SETTLE

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.

APPENDIX V

INITIAL REMEDIATION PLAN

EOG Resources, Inc.
Artesia Division Office
104 S. 4th Street
Artesia, N. M. 88210

EOG Resources, Inc.

Characterization & Remediation Plan

Mescalero ARL State #2

30-025-37039

Section 2, T10S-R32E

Lea County, New Mexico

March 3, 2020

Table of Contents

I. Location

Go southeast on Highway 380 from Caprock Store for approximately 3 miles (between MM 205 & MM206) to Button Mesa Road (CR 156). Turn north and go approximately 7 miles to Caliche Pit on the East. Turn east on lease road and go approximately 0.7 miles. Turn left (North) onto the access road to the southeast corner of the pad.

II. Background

EOG Resources, Inc. submitted to the NMOCD District I office a Form C-141, Release Notification for the release of 5 B/PW with 4 B/PW recovered, that occurred on December 6, 2019. The affected area is approximately 10' X 250' on the well pad. The release was caused by a pressure gauge on the wellhead for the tubing that failed, which caused the release. A vacuum truck was called and recovered the remaining oil. A backhoe was dispatched and scraped up the surface of the impacted area, contaminated soils (approximately 60 cubic yards) were disposed at an NMOCD approved facility. The release occurred on the well pad and remained on the well pad

III. Surface and Ground Water

Area surface geology is Eolian deposits. The Mescalero ARL State #2 is located in a Low Karst per Bureau of Land Management Karst Potential KMZ File Google Map Layer (Appendix 2).

Based on information regarding this location (Section 2, T10S-R32E), the United States Geological Survey (USGS) National Water Information System, indicates the depth to groundwater as follows: USGS #332658103385101, (Depth to Water: 53', Field groundwater-level measurements: 1/1996, Distance from Location: 1.42 miles), USGS #332908103364901, (Depth to Water: 80', Field groundwater-level measurements: 4/1971, Distance from Location: 1.78 miles), USGS #33265810339202, (Depth to Water: 80', Field groundwater-level measurements: 11/1991, Distance from Location: 1.81 miles). See Appendix 2.

Watercourses in the area are dry except for infrequent flows in response to major precipitation events, lateral extents of the release are not within a 100-year floodplain and the distance to nearest significant watercourse being approximately 2.95 miles south of the location (Appendix 4).

IV. NMOCD Table I Criteria

Depth to ground water	51-100'
Wellhead Protection Area	> 1000'
Distance to significant watercourse	> 1000'

Depth	Constituent	Method	Limit
51-100'	Chloride	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

V. Site Delineation Status

Initial sampling was conducted on January 29, 2020, with samples collected being 5 point composite samples at the depth of 1' BSL & GPS coordinates are shown below and results on Appendix 5, (2/26/2020 sidewall samples collected, are also a 5 point composite at the depth of 1' BSL & GPS coordinates are shown below and results on Appendix 5).

S- 1.1: (33.46975°; -103.63943°) S- 7.1: (33.46995°; -103.63931°) S- 13.1: (33.46989°; -103.63907°)
S- 2.1: (33.46979°, -103.63941°) S- 8.1: (33.46995°; -103.63927°) S- 14.1: (33.46986°; -103.63904°)
S- 3.1: (33.46982°; -103.63939°) S- 9.1: (33.46994°; -103.63923°) S- 15.1: (33.46988°; -103.63929°)
S- 4.1: (33.46985°; -103.63940°) S- 10.1: (33.46993°; -103.63919°) S- 16.1: (33.46986°; -103.63925°)
S- 5.1: (33.46989°; -103.63936°) S- 11.1: (33.46992°; -103.63915°) S- 17.1: (33.46984°; -103.63921°)
S- 6.1: (33.46993°; -103.63934°) S- 12.1: (33.46991°; -103.63911°) S- 18.1: (33.46980°; -103.63918°)

SW-1.A.1: (33.46974°; -103.63945°) (33.46986°; -103.63938°) (33.46997°; -103.63934°) (33.46995°; -103.63916°) (33.46988°; -103.63901°)

SW-1.B.1: (33.46975°; -103.63941°) (33.46983°; -103.63937°) (33.46989°; -103.63933°) (33.46986°; -103.63926°) (33.46979°; -103.63918°)

SW-1.C.1: (33.46983°; -103.63917°) (33.46989°; -103.63927°) (33.46993°; -103.63930°) (33.46992°; -103.63918°) (33.46988°; -103.63906°)

These samples were sent to an NMOCD approved laboratory and analysis for the following constituents/methods.

Chlorides:	EPA 300.0
TPH (GRO+DRO+MRO):	Method 8015M
GRO+DRO:	Method 8015M
BTEX:	Method 8015B
Benzene:	Method 8015B

Field Data/Sample Data (Appendix 5).

Laboratory Data and COC (Appendix 6).

VI. Remediation Plan

EOG proposes the following remediation plan.

Based off of the 1/29/2020 and 2/26/2020 enclosed analytical results. EOG will excavate/sample the following areas (S-3.1, S-4.1, S-5.1, S-8.1 & S-9.1), until limits are below Table I Criteria for GRO+DRO levels.

Once levels are meet, EOG will notify the appropriate division district office two business days prior to conducting final sampling. Separate representative wall and base 5-point composite samples will be collected to show horizontal and vertical remediation. Each composite sample must not be representative of more than 200 ft^2.

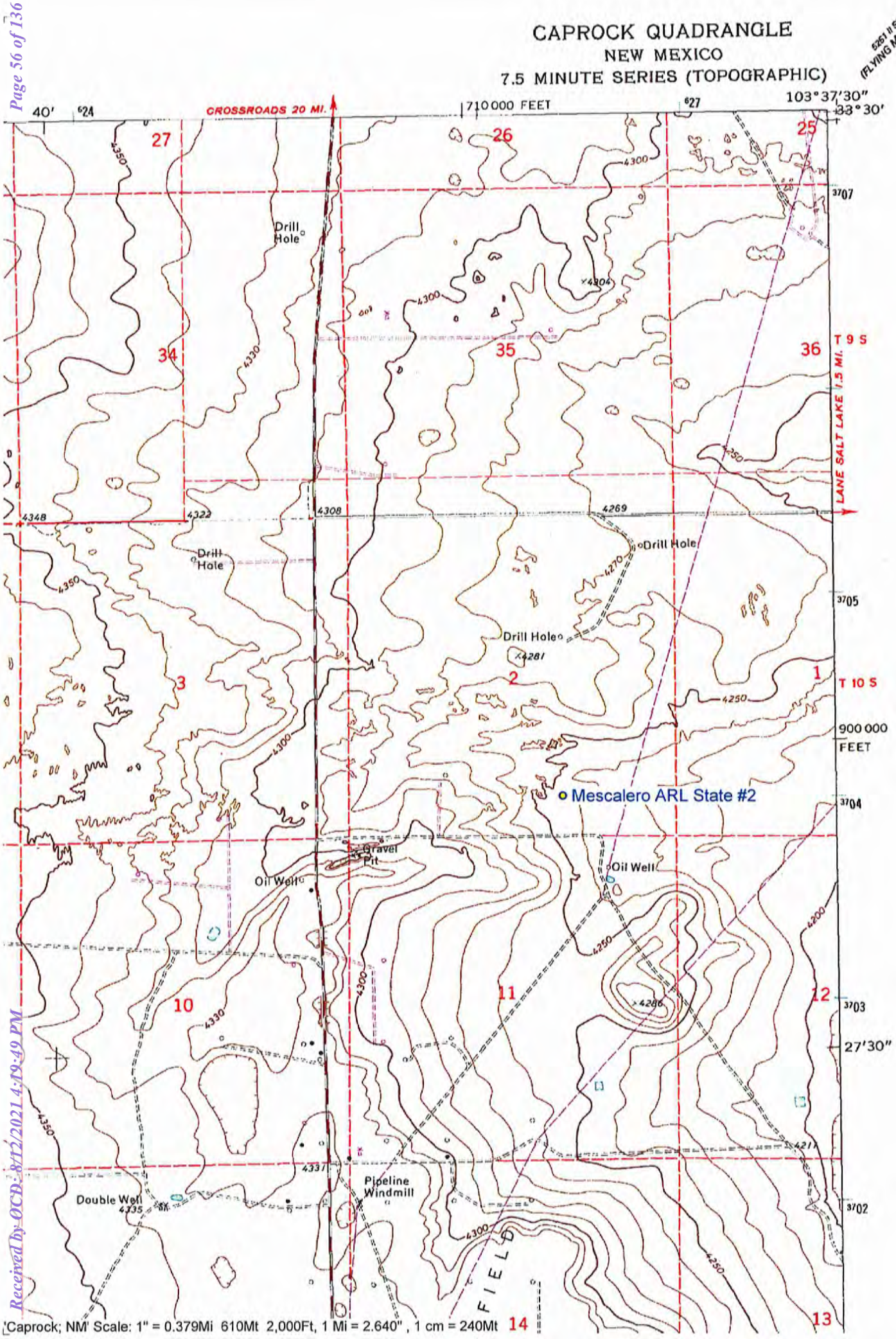
If all composite and grab sample concentrations are less than or equal to the parameters listed in Table I, then the responsible party will proceed to backfill the excavated area(s) with approximately 64 cubic yards of clean/like backfill material.

VII. Site Closure

Upon completion of the remedial and backfilling activities, EOG Resources, Inc. will submit a Form C-141/Closure to the NMOCD, including the Closure Report Attachment Checklist.

Appendix 1

Site/Topo/Impacted Map



Appendix 2

Surface and Depth to Ground Water

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National Water Information System: Web Interface

USGS Water Resources

Data Category: Site Information | Geographic Area: United States | GO

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USGS 332908103364901 09S.32E.36.42422

Available data for this site: SUMMARY OF ALL AVAILABLE DATA | GO

Well Site

DESCRIPTION:

Latitude 33°29'14", Longitude 103°36'59" NAD27
Lea County, New Mexico , Hydrologic Unit 12080001
Well depth: 300 feet
Land surface altitude: 4,228.00 feet above NGVD29.
Well completed in "Chinle Formation of Dockum Group" (231CHNL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1957-06-09	1971-04-29	3
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

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URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=332908103364901

Page Contact Information: New Mexico Water Data Support Team
Page Last Modified: 2020-03-02 13:22:00 EST
0.27 0.26 caww01

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Search Results -- 1 sites found

site_no list =

- 332908103364901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

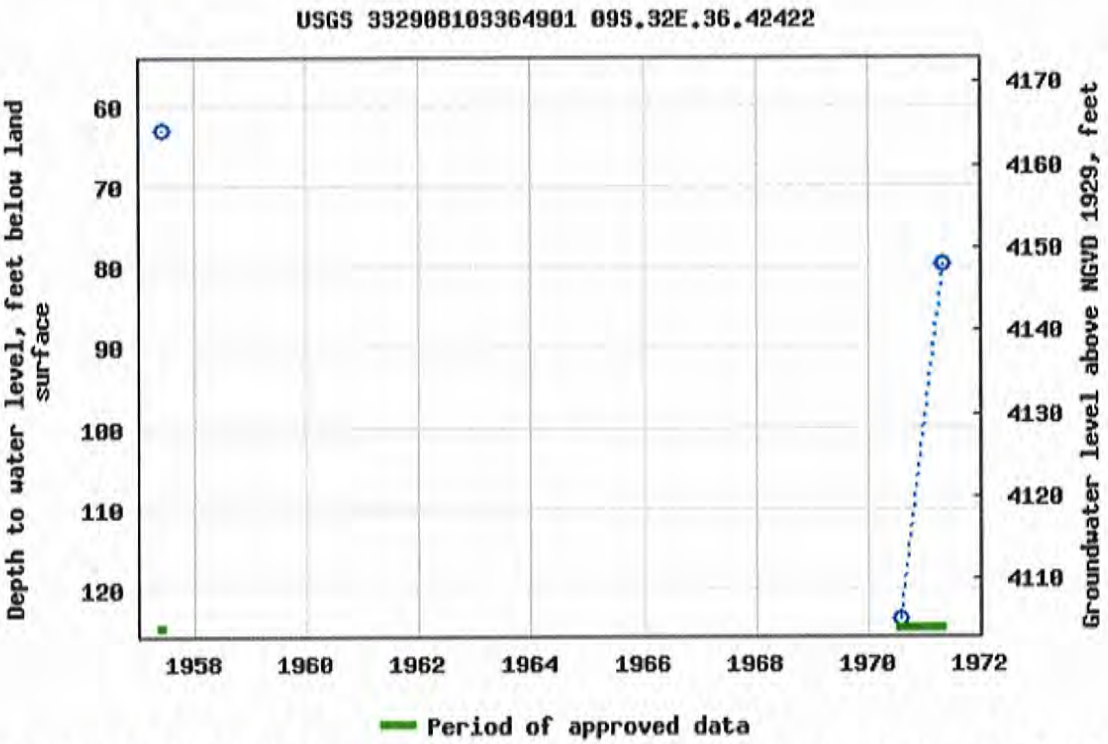
USGS 332908103364901 09S.32E.36.42422

Available data for this site Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 12080001
Latitude 33°29'14", Longitude 103°36'59" NAD27
Land-surface elevation 4,228.00 feet above NGVD29
The depth of the well is 300 feet below land surface.
This well is completed in the Chinle Formation of Dockum Group (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-03-02 13:22:09 EST
0.65 0.54 nadww01

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USGS 332658103392902 10S.32E.15.122433

Available data for this site: SUMMARY OF ALL AVAILABLE DATA | GO

Well Site

DESCRIPTION:

Latitude 33°27'06", Longitude 103°39'39" NAD27
Lea County, New Mexico , Hydrologic Unit 12080001
Well depth: 125 feet
Land surface altitude: 4,335.00 feet above NGVD29.
Well completed in "Ogallala Formation" (121OGLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1954-09-17	1981-02-11	5
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

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URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=332658103392902

Page Contact Information: New Mexico Water Data Support Team
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0.28 0.27 caww01

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Search Results -- 1 sites found

site_no list =

- 332658103392902

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

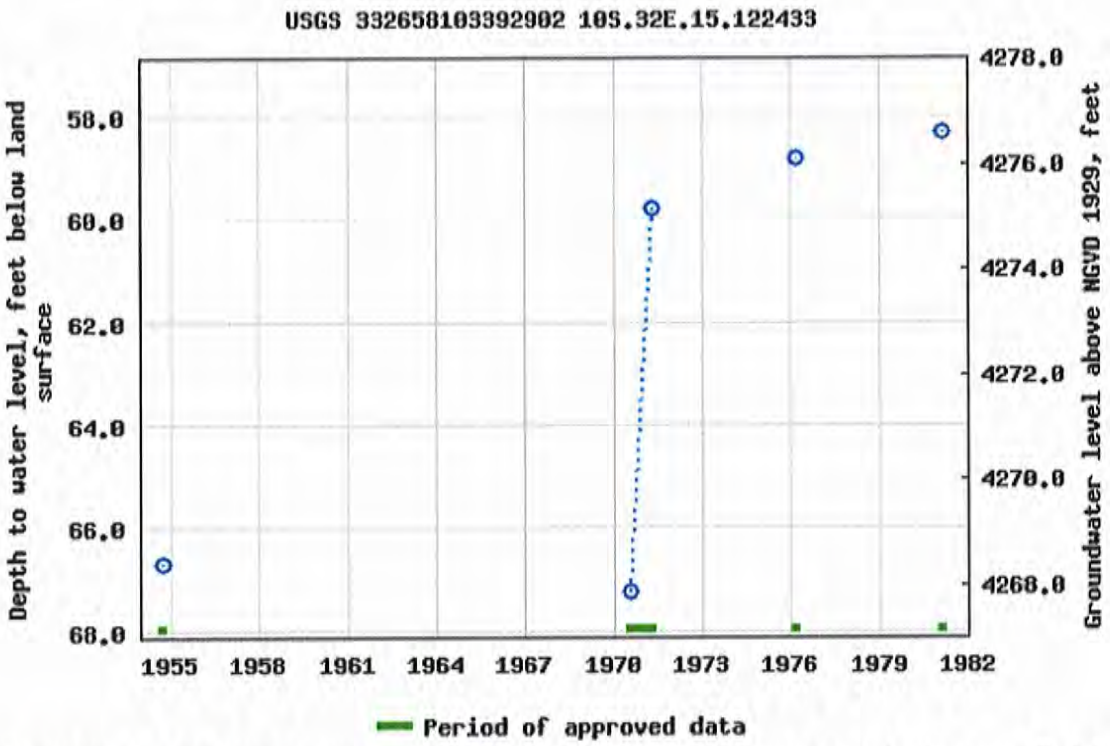
USGS 332658103392902 10S.32E.15.122433

Available data for this site Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 12080001
Latitude 33°27'06", Longitude 103°39'39" NAD27
Land-surface elevation 4,335.00 feet above NGVD29
The depth of the well is 125 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



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

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0.64 0.59 nadww01

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USGS 332658103385101 10S.32E.14.111343

Available data for this site: SUMMARY OF ALL AVAILABLE DATA | GO

Well Site

DESCRIPTION:

Latitude 33°27'07", Longitude 103°39'02" NAD27
Lea County, New Mexico , Hydrologic Unit 12080001
Well depth: not determined.
Land surface altitude: 4,322.00 feet above NGVD29.
Well completed in "Ogallala Formation" (121OGLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1957-06-13	1996-01-31	7
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

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URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=332658103385101

Page Contact Information: New Mexico Water Data Support Team
Page Last Modified: 2020-03-02 13:20:48 EST
0.29 0.28 caww01

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Search Results -- 1 sites found

site_no list =

- 332658103385101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

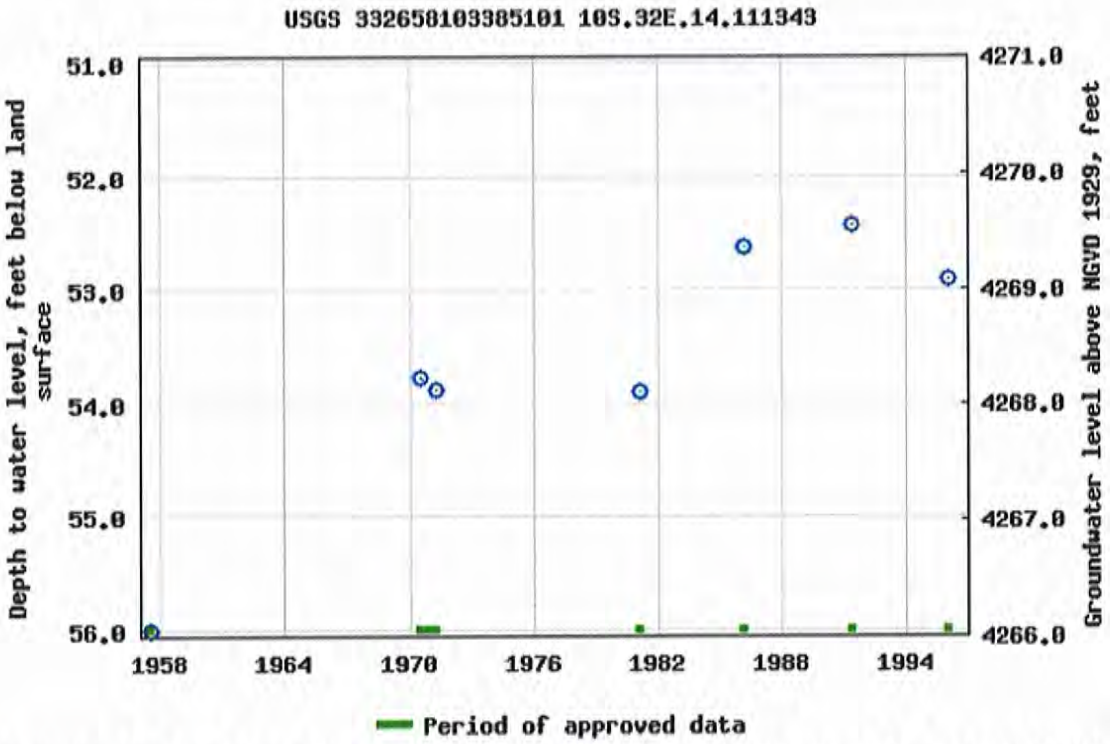
USGS 332658103385101 10S.32E.14.111343

Available data for this site Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 12080001
Latitude 33°27'07", Longitude 103°39'02" NAD27
Land-surface elevation 4,322.00 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



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

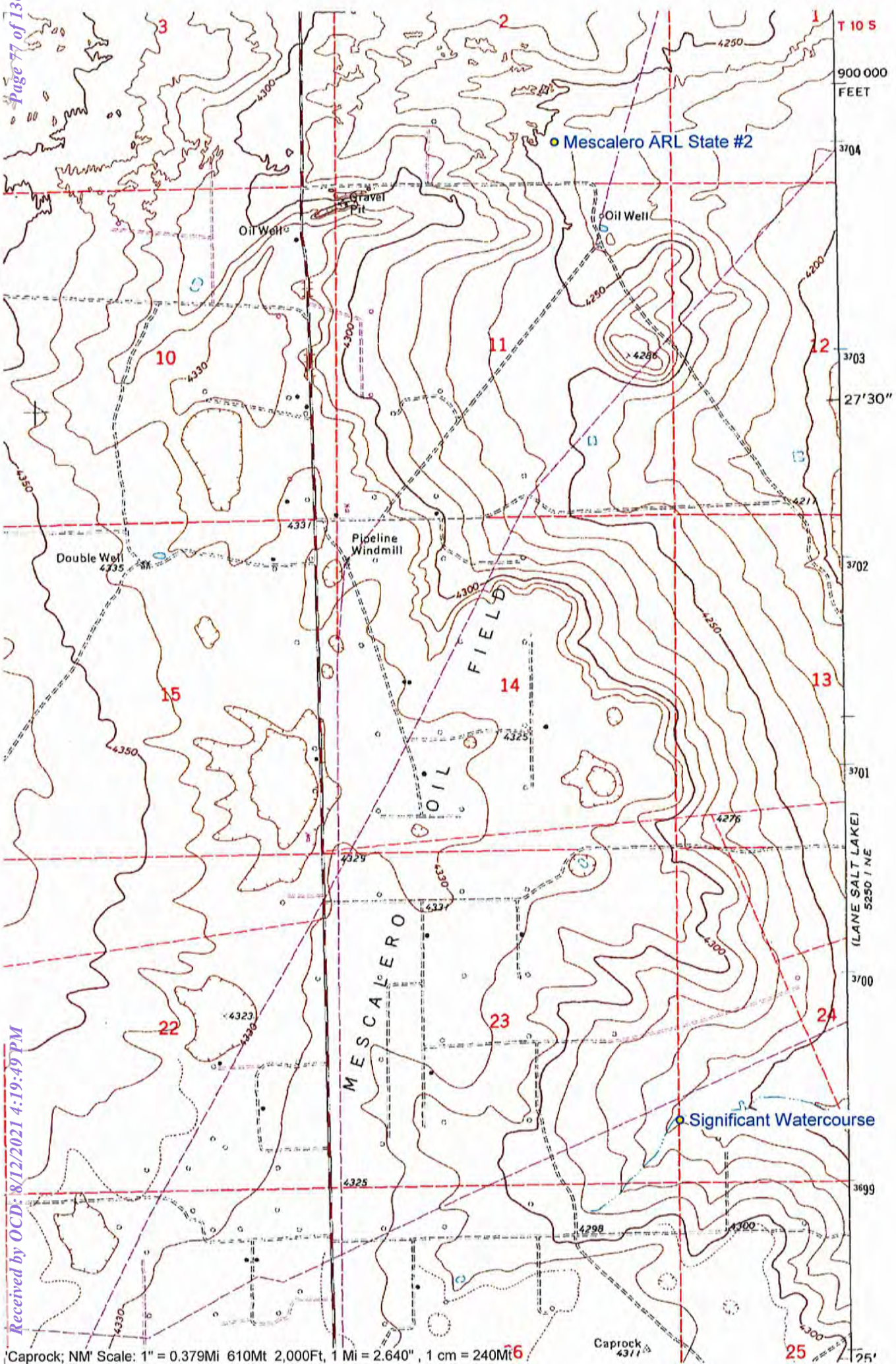
Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-03-02 13:20:55 EST
0.62 0.54 nadww01

Appendix 3

Wellhead Protection Area

Appendix 4

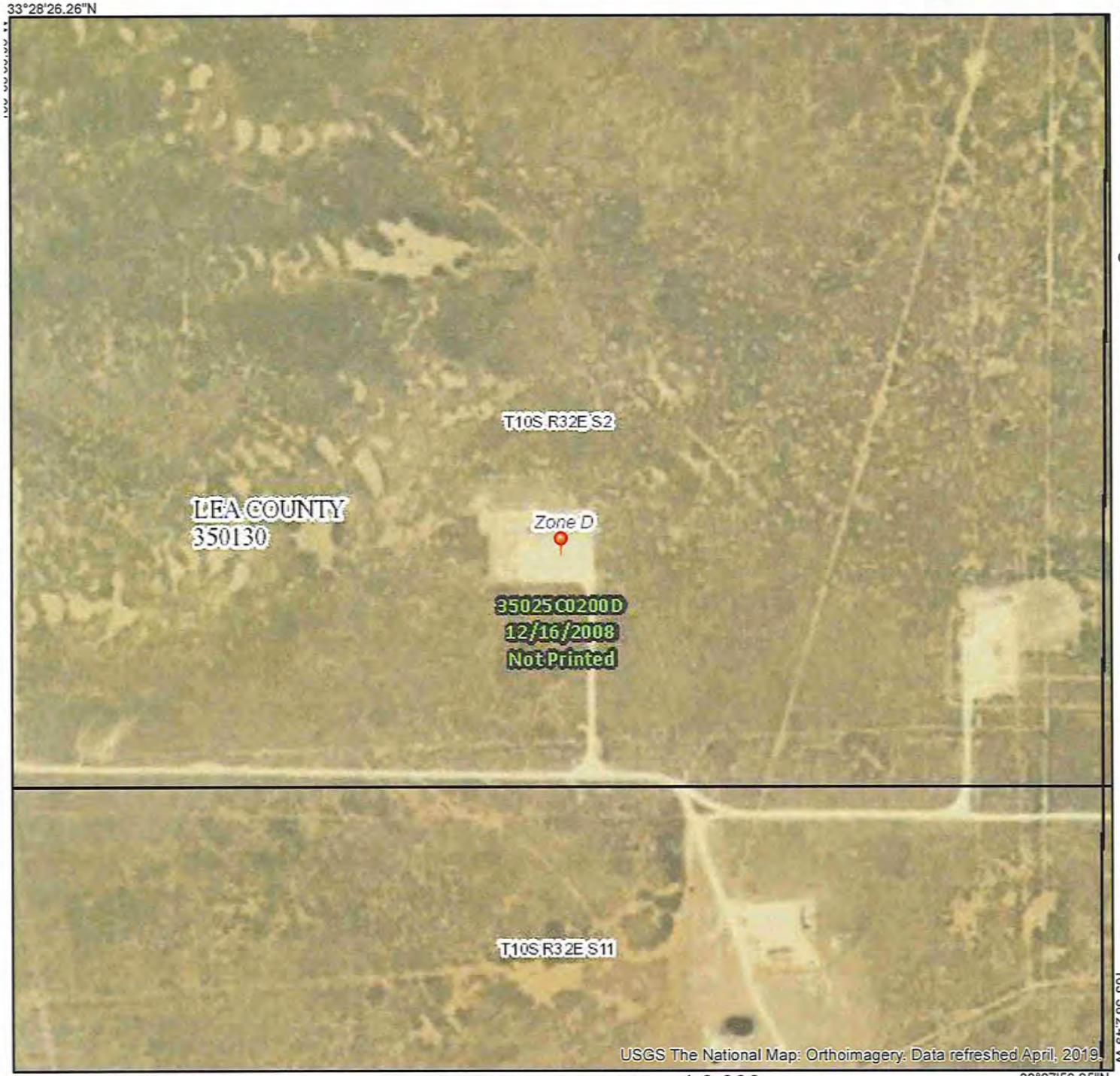
Distance to Nearest Significant Watercourse



'Caprock; NM' Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640" , 1 cm = 240Mt

National Flood Hazard Layer FIRMette

FEMA



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **3/3/2020 at 8:41:33 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix 5

Field Data/Sample Data

Mescalero ARL State #2
Sample Data
Per NMOCD Table I Criteria

Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	GRO+DRO	BTEX	Benzene
S-1.1	1'	1/29/20	0	122	122	0.5120	0.0
S-2.1	1'	1/29/20	30.5	214	214	0.0667	0.0
S-3.1	1'	1/29/20	249	1268	1040	0.1450	0.0
S-4.1	1'	1/29/20	500	2481	1940	0.1680	0.0
S-5.1	1'	1/29/20	233	1237	1030	0.0000	0.0
S-6.1	1'	1/29/20	230	1031	867	0.0000	0.0
S-7.1	1'	1/29/20	157	1023	886	0.0923	0.0
S-8.1	1'	1/29/20	129	2319.6	2062.6	0.9916	0.0
S-9.1	1'	1/29/20	199	1277	1110	0.1520	0.0
S-10.1	1'	1/29/20	127	536	432	0.0000	0.0
S-11.1	1'	1/29/20	134	538.4	454	0.0000	0.0
S-12.1	1'	1/29/20	0	0	0	0.0000	0.0
S-13.1	1'	1/29/20	0	0	0	0.0000	0.0
S-14.1	1'	1/29/20	0	0	0	0.0000	0.0
S-15.1	1'	1/29/20	235	768	593	0.0000	0.0
S-16.1	1'	1/29/20	160	921	724	0.0000	0.0
S-17.1	1'	1/29/20	70.4	348.9	265	0.0000	0.0
S-18.1	1'	1/29/20	77.2	34.3	34.3	0.0000	0.0
Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	GRO+DRO	BTEX	Benzene
SW-1 A.1	1'	2/26/20	50.2	0	0	0.0000	0.0
SW-1 B.1	1'	2/26/20	93	329	174	0.0000	0.0
SW-1.C.1	1'	2/26/20	89.9	0	0	0.0000	0.0

NMOCD Table I Criteria

Depth	Constituent	Method	Limit
51-100'	Chloride	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO +MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Appendix 6

Laboratory Data and COC

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Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 1/31/2020
Job Number: 19034-0001
Work Order: P001096
Project Name/Location: Mascalero ARL State #2

Report Reviewed By: Walter Hinchman Date: 2/3/20

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

5796 Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865
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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.1	P001096-01A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-2.1	P001096-02A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-3.1	P001096-03A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-4.1	P001096-04A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-5.1	P001096-05A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-6.1	P001096-06A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-7.1	P001096-07A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-8.1	P001096-08A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-9.1	P001096-09A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-10.1	P001096-10A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-11.1	P001096-11A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-12.1	P001096-12A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-13.1	P001096-13A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-14.1	P001096-14A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-15.1	P001096-15A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-16.1	P001096-16A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-17.1	P001096-17A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.
S-18.1	P001096-18A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-1.1
P001096-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	**0.0512**	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	**0.0512**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*107 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**122**	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*95.9 %*	*50-200*		*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.9 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-2.1
P001096-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	**0.0667**	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	**0.0667**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*107 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**214**	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*86.9 %*	*50-200*		*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.2 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**30.5**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-3.1
P001096-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	**0.145**	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	**0.145**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*113 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**1040**	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	**228**	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*94.3 %*		*50-200*	*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.8 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**249**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-4.1
P001096-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	**0.0912**	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	**0.0772**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	**0.168**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*110 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**1940**	50.0	mg/kg	2	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	**541**	100	mg/kg	2	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*110 %*		*50-200*	*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**500**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-5.1
P001096-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*107 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**1030**	50.0	mg/kg	2	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	**207**	100	mg/kg	2	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*105 %*		*50-200*	*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**233**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-6.1
P001096-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*107 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**867**	50.0	mg/kg	2	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	**164**	100	mg/kg	2	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*103 %*	*50-200*		*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.2 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**230**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-7.1
P001096-07 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	**0.0531**	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	**0.0392**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	**0.0923**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*108 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**886**	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	**137**	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*87.3 %*		*50-200*	*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.0 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**157**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-8.1
P001096-08 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	**0.0296**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	**0.0810**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	**0.576**	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	**0.304**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	**0.881**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*116 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**2040**	50.0	mg/kg	2	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	**257**	100	mg/kg	2	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*107 %*		*50-200*	*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	**22.6**	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.4 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**129**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-9.1
P001096-09 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	**0.0851**	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	**0.0673**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	**0.152**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*107 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**1110**	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	**167**	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*109 %*	*50-200*		*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.5 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**199**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-10.1
P001096-10 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*107 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**432**	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	**104**	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*91.9 %*	*50-200*		*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**127**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-11.1
P001096-11 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**454**	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	**84.4**	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*91.1 %*	*50-200*		*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.7 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**134**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-12.1
P001096-12 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*98.9 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*91.1 %*	*50-200*		*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.4 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-13.1
P001096-13 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*92.8 %*	*50-200*		*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.5 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-14.1
P001096-14 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*92.8 %*		*50-200*	*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.6 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-15.1
P001096-15 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**593**	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	**175**	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*92.2 %*	*50-200*		*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.9 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**235**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-16.1
P001096-16 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*99.1 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**724**	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	**197**	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*112 %*	*50-200*		*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.7 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**160**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-17.1
P001096-17 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**265**	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	**83.9**	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*94.9 %*	*50-200*		*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.5 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**70.4**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

S-18.1
P001096-18 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**34.3**	25.0	mg/kg	1	2005033	01/31/20	02/03/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005033	01/31/20	02/03/20	EPA 8015D	
Surrogate: n-Nonane		*93.8 %*	*50-200*		*2005033*	*01/31/20*	*02/03/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.9 %*	*50-150*		*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**77.2**	20.0	mg/kg	1	2005038	01/31/20	01/31/20	EPA 300.0/9056A	

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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005035 - Purge and Trap EPA 5030A										
Blank (2005035-BLK1)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*8.63*		"	*8.00*		*108*	*50-150*			
LCS (2005035-BS1)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Benzene	5.12	0.0250	mg/kg	5.00		102	70-130			
Toluene	5.13	0.0250	"	5.00		103	70-130			
Ethylbenzene	5.11	0.0250	"	5.00		102	70-130			
p,m-Xylene	10.2	0.0500	"	10.0		102	70-130			
o-Xylene	5.14	0.0250	"	5.00		103	70-130			
Total Xylenes	15.3	0.0250	"	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.59*		"	*8.00*		*107*	*50-150*			
Matrix Spike (2005035-MS1)		**Source: P001096-01**		Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Benzene	5.03	0.0250	mg/kg	5.00	ND	101	54.3-133			
Toluene	5.05	0.0250	"	5.00	ND	101	61.4-130			
Ethylbenzene	5.04	0.0250	"	5.00	ND	101	61.4-133			
p,m-Xylene	10.1	0.0500	"	10.0	0.0512	100	63.3-131			
o-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.1	0.0250	"	15.0	0.0512	101	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*8.68*		"	*8.00*		*108*	*50-150*			
Matrix Spike Dup (2005035-MSD1)		**Source: P001096-01**		Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Benzene	5.08	0.0250	mg/kg	5.00	ND	102	54.3-133	0.936	20	
Toluene	5.07	0.0250	"	5.00	ND	101	61.4-130	0.255	20	
Ethylbenzene	5.05	0.0250	"	5.00	ND	101	61.4-133	0.284	20	
p,m-Xylene	10.1	0.0500	"	10.0	0.0512	100	63.3-131	0.194	20	
o-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131	0.0701	20	
Total Xylenes	15.2	0.0250	"	15.0	0.0512	101	63.3-131	0.153	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.52*		"	*8.00*		*106*	*50-150*			

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005033 - DRO Extraction EPA 3570										
Blank (2005033-BLK1)				Prepared: 01/31/20 0 Analyzed: 02/03/20 0						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*48.0*		"	*50.0*		*96.1*	*50-200*			
LCS (2005033-BS1)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Diesel Range Organics (C10-C28)	415	25.0	mg/kg	500		82.9	38-132			
Surrogate: n-Nonane	*49.3*		"	*50.0*		*98.6*	*50-200*			
Matrix Spike (2005033-MS1)	**Source: P001096-01**			Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Diesel Range Organics (C10-C28)	704	25.0	mg/kg	500	122	116	38-132			
Surrogate: n-Nonane	*53.9*		"	*50.0*		*108*	*50-200*			
Matrix Spike Dup (2005033-MSD1)	**Source: P001096-01**			Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Diesel Range Organics (C10-C28)	597	25.0	mg/kg	500	122	94.9	38-132	16.4	20	
Surrogate: n-Nonane	*47.9*		"	*50.0*		*95.8*	*50-200*			

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005035 - Purge and Trap EPA 5030A										
Blank (2005035-BLK1)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		"	*8.00*		*94.9*	*50-150*			
LCS (2005035-BS2)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Gasoline Range Organics (C6-C10)	46.8	20.0	mg/kg	50.0		93.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.69*		"	*8.00*		*96.2*	*50-150*			
Matrix Spike (2005035-MS2)		**Source: P001096-01**		Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Gasoline Range Organics (C6-C10)	47.7	20.0	mg/kg	50.0	ND	95.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.55*		"	*8.00*		*94.4*	*50-150*			
Matrix Spike Dup (2005035-MSD2)		**Source: P001096-01**		Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Gasoline Range Organics (C6-C10)	48.1	20.0	mg/kg	50.0	ND	96.2	70-130	0.984	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.46*		"	*8.00*		*93.3*	*50-150*			

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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005038 - Anion Extraction EPA 300.0/9056A										
Blank (2005038-BLK1)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2005038-BS1)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Chloride	248	20.0	mg/kg	250		99.3	90-110			
Matrix Spike (2005038-MS1)	**Source: P001096-01**			Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Chloride	261	20.0	mg/kg	250	ND	104	80-120			
Matrix Spike Dup (2005038-MSD1)	**Source: P001096-01**			Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Chloride	261	20.0	mg/kg	250	ND	104	80-120	0.230	20	

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	02/03/20 15:43

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 2

Client: EOG Resources, Inc.	
Project: Mascalero ARL State #2	
Project Manager: Robert Asher	
Address: 104 South 4th Street	
City, State, Zip Artesia, NM 88210	
Phone: (575) 748-4217	
Email: robert_asher@eogresources.com	

Report Attention

Report due by:	2/3/2020
Attention:	Robert Asher
Address:	104 South 4th Street
City, State, Zip	Artesia, NM 88210
Phone:	(575) 748-4217
Email:	robert_asher@eogresources.com

Lab Use Only: Lab WO# P001096 | Job Number 19034-0001

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM X | CO | UT | AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks
11:33 AM	1/29/20	S	1	S-1.1	1	X	X	X			X	BGDOC
11:35 AM	1/29/20	S	1	S-2.1	2	X	X	X			X	BGDOC
11:37 AM	1/29/20	S	1	S-3.1	3	X	X	X			X	BGDOC
11:40 AM	1/29/20	S	1	S-4.1	4	X	X	X			X	BGDOC
11:42 AM	1/29/20	S	1	S-5.1	5	X	X	X			X	BGDOC
11:45 AM	1/29/20	S	1	S-6.1	6	X	X	X			X	BGDOC
11:50 AM	1/29/20	S	1	S-7.1	7	X	X	X			X	BGDOC
11:54 AM	1/29/20	S	1	S-8.1	8	X	X	X			X	BGDOC
11:57 AM	1/29/20	S	1	S-9.1	9	X	X	X			X	BGDOC
					10 R2							

Additional Instructions:
PO# 205632

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	1/30/2019	7:51 AM	Raina Lopez	1/31/20	9:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: (Y) / N
T1 _____ T2 _____ T3 _____
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401
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labadmin@envirotech-inc.com

Page 27 of 27

Project Information | Chain of Custody | Page 2 of 2

Client: EOG Resources, Inc.	Report Attention
Project: Mascalero ARL State #2	Report due by: 2/3/2020
Project Manager: Robert Asher	Attention: Robert Asher
Address: 104 South 4th Street	Address: 104 South 4th Street
City, State, Zip Artesia, NM 88210	City, State, Zip Artesia, NM 88210
Phone: (575) 748-4217	Phone: (575) 748-4217
Email: robert_asher@eogresources.com	Email: robert_asher@eogresources.com

Lab Use Only: Lab WO# P001096 | Job Number 19034-0001

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM X | CO | UT | AZ

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks
12:00 PM	1/29/20	S	1	S-10.1	10	X	X	X			X	BGDOC
12:03 PM	1/29/20	S	1	S-11.1	11	X	X	X			X	BGDOC
12:06 PM	1/29/20	S	1	S-12.1	12	X	X	X			X	BGDOC
12:09 PM	1/29/20	S	1	S-13.1	13	X	X	X			X	BGDOC
12:12 PM	1/29/20	S	1	S-14.1	14	X	X	X			X	BGDOC
12:14 PM	1/29/20	S	1	S-15.1	15	X	X	X			X	BGDOC
12:16 PM	1/29/20	S	1	S-16.1	16	X	X	X			X	BGDOC
12:18 PM	1/29/20	S	1	S-17.1	17	X	X	X			X	BGDOC
12:20 PM	1/29/20	S	1	S-18.1	18	X	X	X			X	BGDOC

Additional Instructions:
PO# 205632

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	1/30/2019	7:51 AM	Raven Lopez	1/31/20	9:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: (Y) N
T1 _____ T2 _____ T3 _____
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Analytical Laboratory

Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 2/28/2020
Job Number: 19034-0001
Work Order: P002098
Project Name/Location: Mascalero ARL State #2

Report Reviewed By: Walter Hinchman Date: 3/2/20

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	03/02/20 14:20

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW-1.A.1	P002098-01A	Soil	02/26/20	02/28/20	Glass Jar, 4 oz.
SW-1.B.1	P002098-02A	Soil	02/26/20	02/28/20	Glass Jar, 4 oz.
SW-1.C.1	P002098-03A	Soil	02/26/20	02/28/20	Glass Jar, 4 oz.

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	03/02/20 14:20

SW-1.A.1
P002098-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*	*50-150*		*2009035*	*02/28/20*	*02/28/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Surrogate: n-Nonane		*88.9 %*	*50-200*		*2009034*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.4 %*	*50-150*		*2009035*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**50.2**	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	03/02/20 14:20

SW-1.B.1
P002098-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*	*50-150*		*2009035*	*02/28/20*	*02/28/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**174**	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	**155**	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Surrogate: n-Nonane		*83.1 %*	*50-200*		*2009034*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.9 %*	*50-150*		*2009035*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**93.0**	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	03/02/20 14:20

SW-1.C.1
P002098-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Surrogate: n-Nonane		*96.3 %*		*50-200*	*2009034*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.6 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**89.9**	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	03/02/20 14:20

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009035 - Purge and Trap EPA 5030A										
Blank (2009035-BLK1)				Prepared & Analyzed: 02/28/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*8.40*		"	*8.00*		*105*	*50-150*			
LCS (2009035-BS1)				Prepared & Analyzed: 02/28/20 1						
Benzene	4.96	0.0250	mg/kg	5.00		99.1	70-130			
Toluene	4.97	0.0250	"	5.00		99.4	70-130			
Ethylbenzene	4.97	0.0250	"	5.00		99.3	70-130			
p,m-Xylene	9.92	0.0500	"	10.0		99.2	70-130			
o-Xylene	4.98	0.0250	"	5.00		99.6	70-130			
Total Xylenes	14.9	0.0250	"	15.0		99.3	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.51*		"	*8.00*		*106*	*50-150*			
Matrix Spike (2009035-MS1)		**Source: P002081-01**		Prepared & Analyzed: 02/28/20 1						
Benzene	4.89	0.0250	mg/kg	5.00	ND	97.7	54.3-133			
Toluene	4.89	0.0250	"	5.00	ND	97.9	61.4-130			
Ethylbenzene	4.89	0.0250	"	5.00	ND	97.7	61.4-133			
p,m-Xylene	9.76	0.0500	"	10.0	ND	97.6	63.3-131			
o-Xylene	4.89	0.0250	"	5.00	ND	97.9	63.3-131			
Total Xylenes	14.7	0.0250	"	15.0	ND	97.7	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.57*		"	*8.00*		*107*	*50-150*			
Matrix Spike Dup (2009035-MSD1)		**Source: P002081-01**		Prepared & Analyzed: 02/28/20 1						
Benzene	5.01	0.0250	mg/kg	5.00	ND	100	54.3-133	2.42	20	
Toluene	4.98	0.0250	"	5.00	ND	99.6	61.4-130	1.78	20	
Ethylbenzene	4.97	0.0250	"	5.00	ND	99.4	61.4-133	1.71	20	
p,m-Xylene	9.92	0.0500	"	10.0	ND	99.2	63.3-131	1.64	20	
o-Xylene	4.97	0.0250	"	5.00	ND	99.4	63.3-131	1.57	20	
Total Xylenes	14.9	0.0250	"	15.0	ND	99.3	0-200	1.62	200	
Surrogate: 4-Bromochlorobenzene-PID	*8.43*		"	*8.00*		*105*	*50-150*			

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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	03/02/20 14:20

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009034 - DRO Extraction EPA 3570										
Blank (2009034-BLK1)				Prepared & Analyzed: 02/28/20 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*49.5*		"	*50.0*		*99.0*	*50-200*			
LCS (2009034-BS1)				Prepared & Analyzed: 02/28/20 1						
Diesel Range Organics (C10-C28)	436	25.0	mg/kg	500		87.1	38-132			
Surrogate: n-Nonane	*47.9*		"	*50.0*		*95.9*	*50-200*			
Matrix Spike (2009034-MS1)	**Source: P002097-01**			Prepared: 02/28/20 1 Analyzed: 03/02/20 1						
Diesel Range Organics (C10-C28)	528	25.0	mg/kg	500	ND	106	38-132			
Surrogate: n-Nonane	*58.0*		"	*50.0*		*116*	*50-200*			
Matrix Spike Dup (2009034-MSD1)	**Source: P002097-01**			Prepared: 02/28/20 1 Analyzed: 03/02/20 1						
Diesel Range Organics (C10-C28)	514	25.0	mg/kg	500	ND	103	38-132	2.65	20	
Surrogate: n-Nonane	*58.5*		"	*50.0*		*117*	*50-200*			

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	03/02/20 14:20

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009035 - Purge and Trap EPA 5030A										
Blank (2009035-BLK1)				Prepared & Analyzed: 02/28/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		"	*8.00*		*94.1*	*50-150*			
LCS (2009035-BS2)				Prepared & Analyzed: 02/28/20 1						
Gasoline Range Organics (C6-C10)	47.6	20.0	mg/kg	50.0		95.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.58*		"	*8.00*		*94.8*	*50-150*			
Matrix Spike (2009035-MS2)		**Source: P002081-01**		Prepared & Analyzed: 02/28/20 1						
Gasoline Range Organics (C6-C10)	46.0	20.0	mg/kg	50.0	ND	91.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.61*		"	*8.00*		*95.1*	*50-150*			
Matrix Spike Dup (2009035-MSD2)		**Source: P002081-01**		Prepared & Analyzed: 02/28/20 1						
Gasoline Range Organics (C6-C10)	47.0	20.0	mg/kg	50.0	ND	94.1	70-130	2.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.51*		"	*8.00*		*93.9*	*50-150*			

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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	03/02/20 14:20

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009037 - Anion Extraction EPA 300.0/9056A										
Blank (2009037-BLK1)				Prepared & Analyzed: 02/28/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2009037-BS1)				Prepared & Analyzed: 02/28/20 1						
Chloride	247	20.0	mg/kg	250		98.9	90-110			
Matrix Spike (2009037-MS1)		**Source: P002097-01**		Prepared & Analyzed: 02/28/20 1						
Chloride	448	20.0	mg/kg	250	194	101	80-120			
Matrix Spike Dup (2009037-MSD1)		**Source: P002097-01**		Prepared & Analyzed: 02/28/20 1						
Chloride	441	20.0	mg/kg	250	194	98.9	80-120	1.48	20	

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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EOG Resources Inc. - Carlsbad	Project Name:	Mascalero ARL State #2	
104 South 4th Street	Project Number:	19034-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Robert Asher	03/02/20 14:20

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Page 11 of 11

Project Information | Chain of Custody | Page 1 of 1

Client: EOG Resources, Inc.	
Project: Mascalero ARL State #2	
Project Manager: Robert Asher	
Address: 104 South 4th Street	
City, State, Zip Artesia, NM 88210	
Phone: (575) 748-4217	
Email: robert_asher@eogresources.com	

Report Attention

Report due by:	3/2/2020
Attention:	Robert Asher
Address:	104 South 4th Street
City, State, Zip	Artesia, NM 88210
Phone:	(575) 748-4217
Email:	robert_asher@eogresources.com

Lab Use Only: Lab WO# P002093 | Job Number 19034-0001

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM X | CO | UT | AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks
12:40 PM	2/26/20	S	1	SW-1.A.1	1	X	X	X			X	BGDOC
12:52 PM	2/26/20	S	1	SW-1.B.1	2	X	X	X			X	BGDOC
1:04 AM	2/26/20	S	1	SW-1.C.1	3	X	X	X			X	BGDOC

Analysis and Method

Additional Instructions:
PO# 205632

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	2/26/2020	3:44 PM	[signature]	2/26/20	13:02
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: (Y) / N
T1 _____ T2 _____ T3 _____
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech
Analytical Laboratory

5796 US Highway 64, Farmington, NM 87401
24 hour Emergency Response Phone (800) 362-1879
Ph (505) 632-0615 FX (505) 632-1865

envirotech-inc.com
labadmin@envirotech-inc.com

Appendix 7

Photos


12/12/2019 11:28:55 AM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
12/12/2019 11:28


12/12/2019 11:28:50 AM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
12/12/2019 11:28


12/12/2019 11:30:06 AM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
12/12/2019 11:30


12/12/2019 11:28:52 AM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
12/12/2019 11:28

eog y resources (575) 748-1471
MESCALERO APE State #2
660' FSL & 1650' FEL - Unit O
Sec. 2 - T 10 S - R 32 E - SW/SE
Lea Co. New Mexico
Lse. #VA-0621 - API #30-025-37039
AFE # 05-026-0
12/12/2019 11:27:35 AM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
12/12/2019 11:27

12/12/2019 11:30:09 AM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
12/12/2019 11:30

12/12/2019 11:27:44 AM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
12/12/2019 11:27

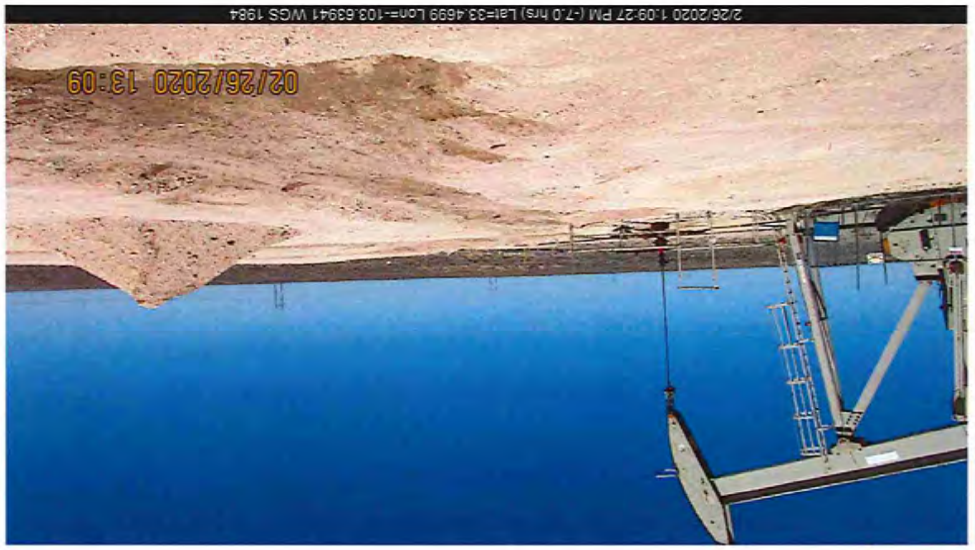
12/12/2019 11:27:41 AM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
12/12/2019 11:27


12/12/2019 11:28:26 AM (-7.0 hrs) Lat=33.4699 Lon=-103.639441 WGS 1984
12/12/2019 11:28


12/12/2019 11:28:03 AM (-7.0 hrs) Lat=33.4699 Lon=-103.639441 WGS 1984
12/12/2019 11:28


12/12/2019 11:28:10 AM (-7.0 hrs) Lat=33.4699 Lon=-103.639441 WGS 1984
12/12/2019 11:28


2/26/2020 1:10:15 PM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
02/26/2020 13:10


2/26/2020 1:09:27 PM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
02/26/2020 13:09


2/26/2020 1:10:18 PM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
02/26/2020 13:10


2/26/2020 1:10:03 PM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
02/26/2020 13:10


2/26/2020 1:11:22 PM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
02/26/2020 13:11


2/26/2020 1:10:38 PM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
02/26/2020 13:10


2/26/2020 1:11:51 PM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
02/26/2020 13:11


2/26/2020 1:11:04 PM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984
02/26/2020 13:11

eog y resources (575) 748-1471
MESCALERO APE State #2
660' FSL & 1650' FEL - Unit O
Sec. 2 - T 10 S - R 32 E - SW/SE
Lea Co. New Mexico
Lse. #VA-0621 - API #30-025-37039
AFE # 05-02
02/26/2020 13:09
2/26/2020 1:09:09 PM (-7.0 hrs) Lat=33.4699 Lon=-103.63941 WGS 1984

Appendix 8

Form C-141
Release Notification

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Robert Asher	Contact Telephone 575-748-4217
Contact email bob_asher@eogresources.com	Incident # *(assigned by OCD)*
Contact mailing address 104 S. 4th Street, Artesia, New Mexico	

Location of Release Source

Latitude 33.46968 Longitude -103.63948
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mescalero ARL State #2	Site Type: Well Pad
Date Release: Discovered 12/6/2019	API# 30-025-37039

Unit Letter	Section	Township	Range	County
O	2	10S	32E	Lea

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)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 3
	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;
Pressure gauge on wellhead for tubing failed causing release of produced water on location.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice 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

☒ The source of the release has been stopped.
☒ 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.
☒ 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: Robert ~~Asher~~ Title: Environmental Supervisor

Signature: Date: 2/4/2020

email: bob_asher@eogresources.com Telephone: 575-748-4217

OCD Only

Received by: Date:

Appendix 9

Form C-141
Site Assessment/Characterization/Remediation Plan

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	53' (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 **not** 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 ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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: Robert Asher Title: Environmental Supervisor

Signature: Date: 3/3/2020

email: bob_asher@eogresources.com Telephone: 575-748-4217

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Robert Asher Title: Environmental Supervisor

Signature: Date: 3/3/2020

email: bob_asher@eogresources.com Telephone: 575-748-4217

OCD Only

Received by: Date:

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Date:

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 P.O. Box 2267 Midland, TX 79702	7377
	Action Number: 41823
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	9/16/2021