RANGER
ENVIRONMENTAL SERVICES, INC.

SITE REMEDIATION AND CLOSURE REPORT

AMOLE AMM STATE #2
UNIT K, SECTION 16, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.658273, -104.491577
RANGER REFERENCE NO. 5375

PREPARED FOR:

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

PREPARED BY:

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

JUNE 8, 2022

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

William Kierdorf, REM
Project Manager

TABLE OF CONTENTS

FORM C-141

FIGURES

- Topographic Map
- Area Map
- Final Confirmation Soil Sample Location Map

TABLES

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

ATTACHMENTS

- Attachment 1 – Photographic Documentation
- Attachment 2 – Laboratory Analytical Reports
- Attachment 3 – NMOCD Correspondence
- Attachment 4 – State Land Office Loamy Sites Seed Mixture

RANGER
ENVIRONMENTAL SERVICES, INC.

SITE REMEDIATION AND CLOSURE REPORT
AMOLE AMM STATE #2
UNIT K, SECTION 16, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.658273, -104.491577
RANGER REFERENCE NO. 5375

1.0 SITE LOCATION AND BACKGROUND

The Amole AMM State #2 (Site) is an active oil and gas well location formerly operated by EOG Resources, Inc. (EOG). The Site is located on State land, approximately 13.7 miles south-southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit K, Section 16, T19S-R25E at GPS coordinates 32.658273, -104.491577. In November 2021, production operations at the Amole AMM State #2 well were transferred from EOG to Silverback Operating II, LLC (Silverback).

While EOG was operating the site, an area of a potential release was reported to EOG by representatives of the Howell Ranch Revocable Trust (Howell Ranch). The reported area was noted to be located along the southern well pad boundary and immediately south of the well pad in an EOG right-of-way. EOG subsequently engaged Ranger Environmental Services, LLC (Ranger) to assist in the assessment and remediation efforts at the Site.

On August 12, 2021, Ranger personnel conducted an assessment of the reported area which included the collection of soil samples for laboratory analysis. Due to the observed size of the potential release area, the area was reported to the New Mexico Oil Conservation Division (NMOCD) on August 31, 2021 (NMOCD Incident # nAPP2111048003). Ranger prepared a *Site Characterization and Proposed Remediation Plan,* dated October 28, 2021, documenting the completed assessment activities, site characterization details, and proposed remediation strategy which was submitted to the NMOCD for review. On January 8, 2022, the NMOCD approved the proposed remediation plan with no conditions of approval.

Within the subject impact/remediation area, two underground utilities are present. An active water line running southwest to northeast is present in the southern portion of the impact/remediation area. An out-of-service flowline, historically associated with the Amole AMM State #2 well is located in the impact/remediation area running north to south.

The following *Site Remediation and Closure Report* has been prepared to document the completed remediation activities and confirmation soil sampling activities.

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

2.0 SITE REMEDIATION

To address the impacted areas, soil removal operations were completed at the Site from May 2, 2022 to June 2, 2022. Operations were conducted to bring the area into compliance with the NMAC 19.15.29.12 Table 1 (groundwater 50'-100') criteria as detailed in the NMOCD approved *Site Characterization and Proposed Remediation Plan*. Additionally, the remediation activities were completed to bring the surface to four-foot depth interval into compliance with the Restoration, Reclamation, and Re-vegetation criteria detailed in NMAC 19.15.29.13.

Due to the presence of the two underground lines in the impact/remediation area, hydrovac operations were completed first to locate the exact position of the lines and allow for safe excavation in the area. Based upon the location of the impacted areas within the site access road, operations were completed in two portions so as to not limit access to the site for Silverback personnel. Soil removal operations were initially completed in the eastern portion of the impact/remediation area. Upon completion and backfilling of the eastern portion of the impact/ remediation area, the western portion was completed.

2.1 Impacted Soil Removal and Confirmation Soil Sampling (Eastern Portion)

Soil removal operations were conducted in the eastern portion of the Site from May 5, 2022 to May 6, 2022. During the excavation process, Ranger personnel collected field readings utilizing an organic vapor monitor (OVM) and field chloride titration kit to guide the excavation boundaries and depths. To confirm that the excavated areas had been completed to appropriate boundaries, confirmation soil samples were subsequently collected in accordance with the NMOCD approved sampling plan detailed in the October 28, 2021 *Site Characterization and Proposed Remediation Plan*.

The cleanup confirmation soil sampling activities were completed on May 5 and 6, 2022. A total of seven cleanup confirmation samples were collected during the May 5 and 6, 2022 sampling event. Prior to the confirmation sampling event, notice was provided to the NMOCD in accordance with NMAC 19.15.29.12(D). A copy of the notification is attached.

Upon collection, all cleanup confirmation soil samples were submitted to Hall Environmental in Albuquerque, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and total chloride using EPA Method 300. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

Upon receipt of the soil analytical data, which confirmed that the eastern excavation area had achieved the approved closure criteria, the area was backfilled with clean fill material.

2.2 Impacted Soil Removal and Confirmation Soil Sampling (Western Portion)

Upon completion of the backfill operations in the eastern excavation area, soil removal operations were initiated in the western portion of the impact/remediation area. Soil removal operations were conducted in the western portion of the impact/remediation area from May 31, 2022 to June 2, 2022. Once again, during the excavation process, Ranger personnel collected field readings from the excavated areas utilizing an OVM and field chloride titration kit to guide the excavation boundaries and depths.

Upon reaching the boundaries of the originally proposed excavation area, the field readings indicated that soil concentrations along the northwestern wall area remained in exceedance of the applicable reclamation criteria. As such, additional excavation activities were conducted until the field readings indicated that the reclamation criteria had been achieved.

During the excavation process, a release was observed along the out-of-service flowline in the southern portion of the excavation area. Residual fluids were observed to be draining out of the bottom of the flowline. Immediate efforts to halt the release of fluids and contain the impacts from the released fluids were taken. It is estimated that less than one barrel of fluid was released from the out-of-service flowline. Recovery efforts were successful in capturing approximately 17 gallons of the released fluids. Upon abatement of the release, the removal of all wet and discolored soils in the release area were immediately completed. Upon completion, the over-excavated area had maximum dimensions of approximately eight (8) feet by 11 feet by approximately 6.5 feet deep.

Cleanup confirmation soil samples were once again collected from the excavated area to confirm that the completed excavation activities had achieved the approved site closure criteria. The cleanup confirmation sampling activities were completed on June 2, 2022. Prior to the confirmation sampling event, notice was provided to the NMOCD in accordance with NMAC 19.15.29.12(D). A copy of the notification is attached.

The cleanup confirmation soil samples were collected in accordance with the NMOCD approved sampling plan detailed in the October 28, 2021 *Site Characterization and Proposed Remediation Plan*. Due to the discovered flowline release and the increased size of the remediation/excavation area in the northwestern section, additional cleanup confirmation soil samples were also collected. Based on the dimensions of the impacted area from the flowline release, a five-part composite soil sample was collected from the excavated area, including the area directly below the release location. In the northwestern portion of the excavation area, an additional grab sample was collected to confirm the area had been brought into attainment of the applicable NMAC 19.15.29.12 Table 1 (groundwater 50'-100') criteria.

Upon collection, all confirmation soil samples were submitted to Hall Environmental in Albuquerque, New Mexico for analysis of TPH, BTEX and total chloride using the aforementioned laboratory methods. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

2.3 Final Excavation Status and Confirmation Sample Results

Upon completion of both the eastern and western portions of the excavation area, the combined excavated area had maximum dimensions of approximately 85 feet by 83 feet. As previously discussed, the impact/remediation area associated with the discovered flowline release had maximum dimensions of approximately eight (8) feet by 11 feet. The excavation was primarily completed to a maximum depth of approximately four feet; however, below the flowline release location the soil removal operations were completed to a maximum depth of approximately 6.5 feet.

Upon review of the final cleanup confirmation soil sample results, the base of the excavation area, including the area associated with the discovered flowline release, was documented to have been brought into attainment of the applicable Table 1 (groundwater 51'- 100') criteria. Additionally, the excavation side walls were documented to have been brought into attainment of the Restoration, Reclamation and Re-Vegetation criteria detailed in 19.15.29.13 NMAC. A

comprehensive sample results table summarizing the laboratory sample results for all samples collected during the remediation process is attached. Copies of the laboratory analytical reports including chain-of-custody documentation are also attached.

A Site map depicting the excavation boundaries and confirmation sample locations is attached.

2.4 Waste Disposal

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

3.0 SITE CLOSURE

3.1 Site Backfill

Based on the soil sample laboratory results, the eastern portion of the excavated area has been backfilled with clean fill material. The portions of the eastern remediated area within the well pad and access road have been restored to the prior site conditions with well pad/access road caliche material. The western portion of remediated area will be backfilled in the same manner as detailed above. The off-pad remediated areas will be re-vegetated with the Loamy Sites Seed Mixture in accordance with State Land Office guidelines.

3.2 Closure Request

Based on the results of the cleanup confirmation soil sampling activities, the site has been properly addressed pursuant to NMAC 19.15.29 and EOG respectfully requests closure of the incident. A final C-141 form is attached.

FORM C-141

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2124435578
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # *(assigned by OCD)* nAPP2124435578
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.65827 Longitude -104.49157
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Amole AMM State Com #2	Site Type Well Pad
Date Release Discovered 08/24/2021	API# *30-015-28424*

Unit Letter	Section	Township	Range	County
K	16	19S	25E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☑ Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☑ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Historical impacts discovered on the well pad, no known volume released can be determined. The environmental consultant investigating the impacted area determined on 8/24/21 based on the impacted area footprint that it most likely crossed the threshold for being a reportable volume.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2124435578
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: Chase Settle
Title: Rep Safety & Environmental Sr
Signature: Chase Settle
Date: 08/31/2021
email: Chase_Settle@eogresources.com
Telephone: 575-748-1471

OCD Only

Received by: Ramona Marcus
Date: 9/1/2021

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2124435578
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?	_____ (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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2124435578
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: _____ Title: _____

Signature:_____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2124435578
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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

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

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

CONDITIONS

Action 45823

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 45823
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	9/1/2021

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2124435578
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?	~61 (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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2124435578
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: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Date: 11/05/2021

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

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2124435578
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

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

Signature: Chase Settle Date: 11/05/2021

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

OCD Only

Received by: _____ Date: _____

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

Signature: Jennifer Nobui Date: 02/08/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2124435578
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 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: Amber Griffin Title: Rep Safety & Environmental Sr

Signature: Amber Griffin Date: 6/9/2022

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

OCD Only

Received by: _____ Date: _____

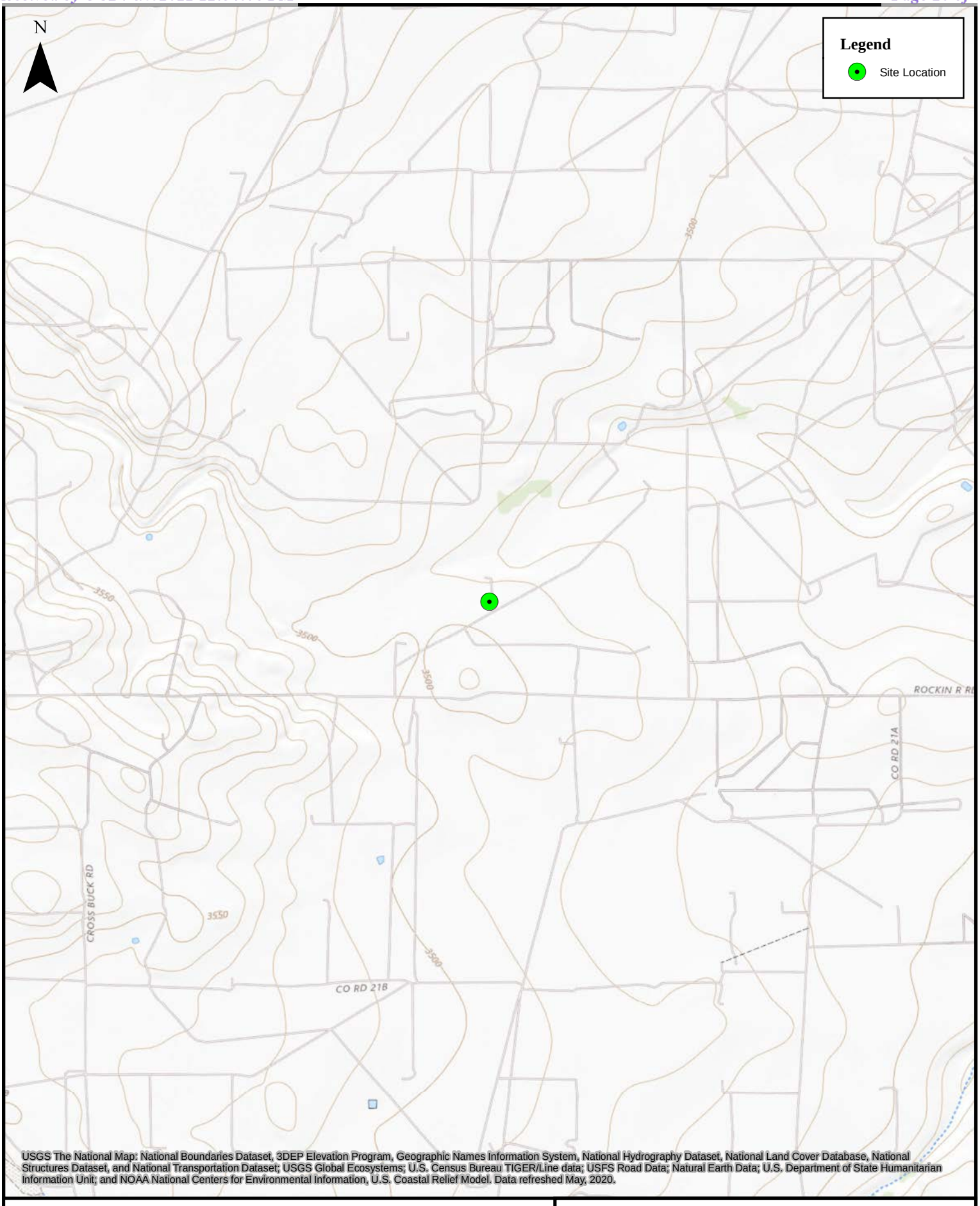
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: Jennifer Nobui Date: 06/15/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

FIGURES

Topographic Map
Area Map
Final Confirmation Sample Location Map

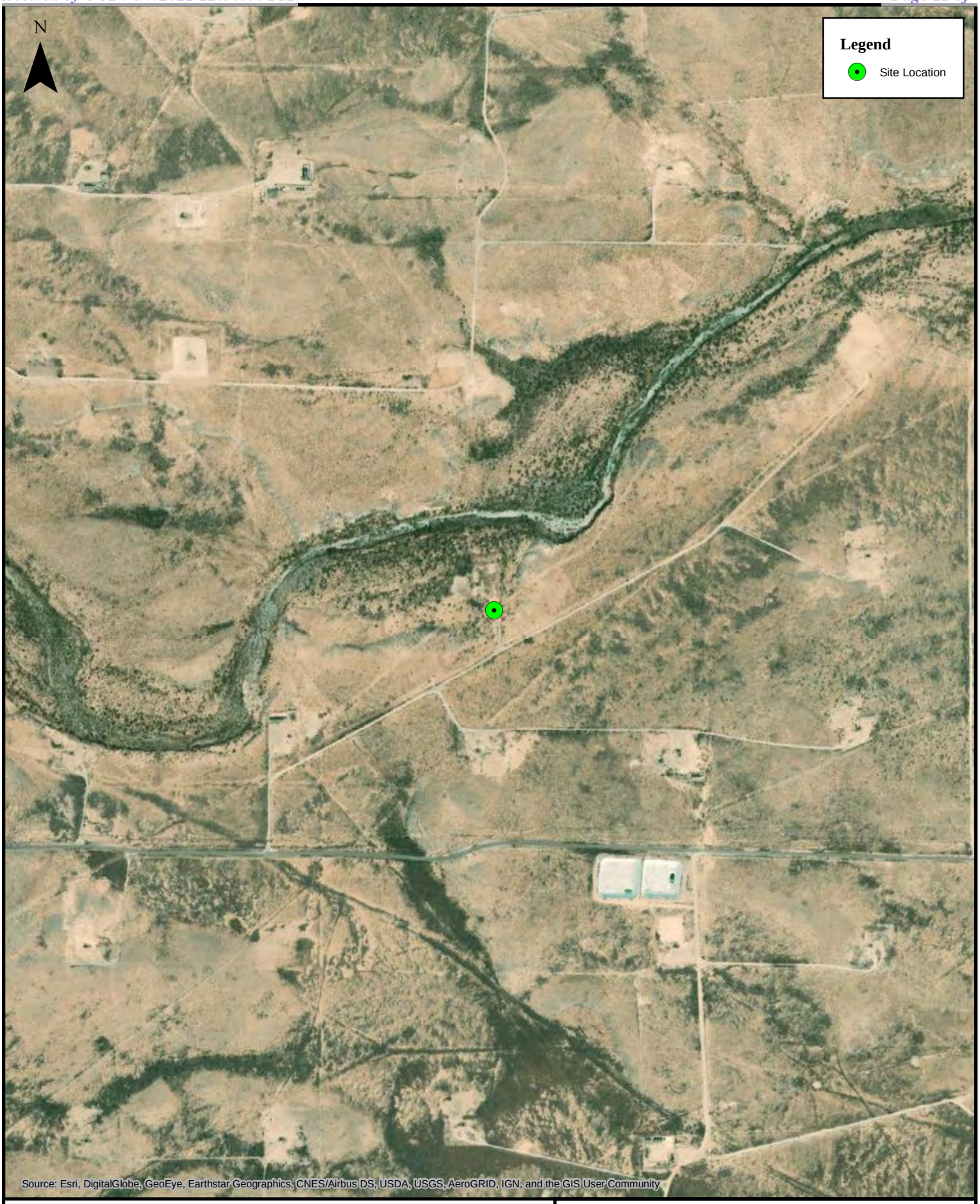


RANGER ENVIRONMENTAL SERVICES, INC.

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

1:24,000

Topographic Map
Amole AMM State #2
EOG Resources, Inc.

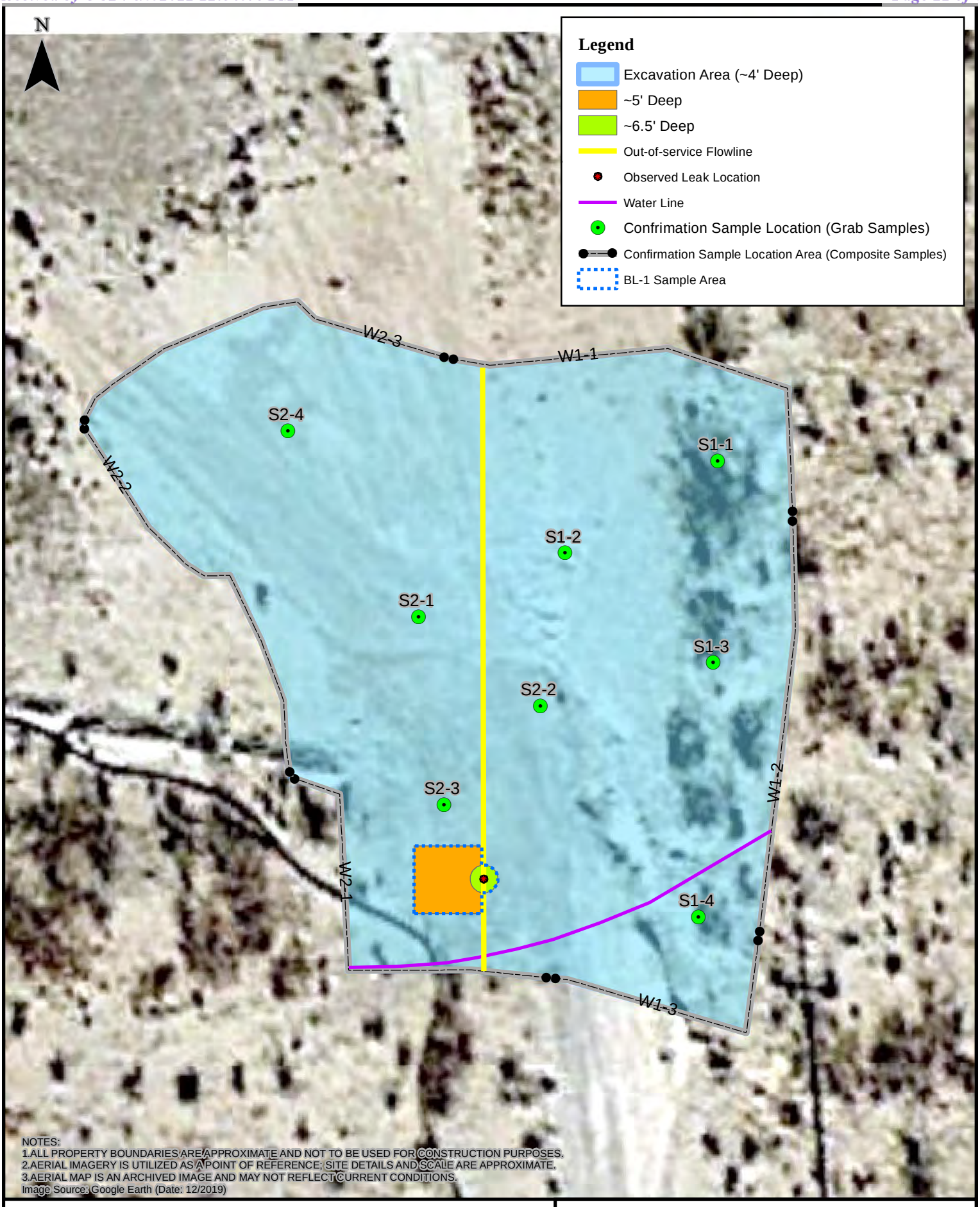


RANGER ENVIRONMENTAL SERVICES, INC.

0 250 500 1,000 1,500 2,000 Feet

1:10,000

Area Map
Amole AMM State #2
EOG Resources, Inc.



NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, INC.

0 4.25 8.5 17 25.5 34 Feet

1:175

Final Confirmation Sample Location Map
Amole AMM State #2
EOG Resources, Inc.

TABLES

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

CONFIRMAITON SOIL SAMPLE BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
EOG RESOURCES, INC.
AMOLE AMM STATE #2

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

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	CHLORIDE
Eastern Excavation Area Soil Samples													
S1-1	5/5/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<9.8	<49	350
S1-2	5/5/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.3	<47	<9.3	<47	460
S1-3	5/5/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<10	<50	<10	<50	430
S1-4	5/6/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.8	<49	<9.8	<49	190
W1-1	5/5/2022	0'-4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<9.6	<48	190
W1-2	5/5/2022	0'-4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<9.8	<49	78
W1-3	5/6/2022	0'-4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.8	<49	<9.8	<49	220
Western Excavation Area Soil Samples													
S2-1	6/2/2022	4'	<0.019	<0.037	<0.037	<0.075	<0.07	<3.7	29	<48	29	29	540
S2-2	6/2/2022	4'	<0.020	<0.039	<0.039	<0.078	<0.08	<3.9	<10	<50	<10	<50	1,500
S2-3	6/2/2022	4'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	16	<49	16	16	3,300
S2-4	6/2/2022	4'	<0.021	<0.042	<0.042	<0.085	<0.08	<4.2	<9.6	<48	<9.6	<48	3,400
W2-1	6/2/2022	0'-4'	<0.017	<0.034	<0.034	<0.067	<0.07	<3.4	<9.5	<48	<9.5	<48	160
W2-2	6/2/2022	0'-4'	<0.018	<0.036	<0.036	<0.072	<0.07	<3.6	<9.6	<48	<9.6	<48	100
W2-3	6/2/2022	0'-4'	<0.015	<0.030	<0.030	<0.061	<0.06	<3.0	22	50	22	72	<60
Western Excavation Area Soil Samples													
BL-1	6/2/2022	4'-6.5'	<0.10	<0.20	<0.20	<0.40	<0.40	<20	510	230	510	740	9,900
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW 51'-100')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**1000**	**2,500**	**10,000**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**10 [3]**	**---**	**---**	**---**	**50 [3]**	**---**	**---**	**---**	**---**	**100 [3]**	**600**

Notes:

1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.

2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.

3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of the Spill Rule (19.15.29 NMAC) dated September 6, 2019.

ATTACHMENT 1 – PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPH NO. 1 – A view of the eastern portion of the excavation/remediation area upon completion. The view is towards the south.
(Approximate GPS: 32.658490, -104.491453)

PHOTOGRAPH NO. 2 – An additional view of the eastern portion of the excavation/remediation area at the Site. The view is towards the northeast.
(Approximate GPS: 32.658236, -104.491581)

PHOTOGRAPH NO. 3 – A view of the maximum extent of impacts associated with the discovered release originating from the out-of-service flowline. The view is towards the south. *(Approximate GPS: 32.658301, -104.491567)*

PHOTOGRAPH NO. 4 – A view over-excavated area in the vicinity of the discovered release location. The view is towards the southeast. *(Approximate GPS: 32.658329, -104.491573)*

PHOTOGRAPH NO. 5 – A view western excavation/remediation area upon completion. The view is to the southwest. *(Approximate GPS: 32.658531, -104.491475)*

PHOTOGRAPH NO. 6 – An additional view of the western portion of the excavation/remediation area at the Site. The view is towards the southeast.
(Approximate GPS: 32.658511, -104.491690)

ATTACHMENT 2 – LABORATORY ANALYTICAL REPORTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 11, 2022

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

RE: Amole AMM State 2 OrderNo.: 2205383

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/7/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2205383**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S1-1
Project: Amole AMM State 2
Collection Date: 5/5/2022 2:51:00 PM
Lab ID: 2205383-001 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	350	60		mg/Kg	20	5/9/2022 9:36:53 PM	67355
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/10/2022 3:10:56 AM	67344
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/10/2022 3:10:56 AM	67344
Surr: DNOP	109	51.1-141		%Rec	1	5/10/2022 3:10:56 AM	67344
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/9/2022 10:38:31 AM	67332
Surr: BFB	101	37.7-212		%Rec	1	5/9/2022 10:38:31 AM	67332
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/9/2022 10:38:31 AM	67332
Toluene	ND	0.050		mg/Kg	1	5/9/2022 10:38:31 AM	67332
Ethylbenzene	ND	0.050		mg/Kg	1	5/9/2022 10:38:31 AM	67332
Xylenes, Total	ND	0.10		mg/Kg	1	5/9/2022 10:38:31 AM	67332
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/9/2022 10:38:31 AM	67332

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

Qualifiers:

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

Analytical Report
Lab Order **2205383**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S1-2
Project: Amole AMM State 2 **Collection Date:** 5/5/2022 2:53:00 PM
Lab ID: 2205383-002 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	460	60		mg/Kg	20	5/9/2022 9:49:18 PM	67355
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/10/2022 3:34:35 AM	67344
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/10/2022 3:34:35 AM	67344
Surr: DNOP	106	51.1-141		%Rec	1	5/10/2022 3:34:35 AM	67344
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/9/2022 11:49:06 AM	67332
Surr: BFB	97.8	37.7-212		%Rec	1	5/9/2022 11:49:06 AM	67332
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/9/2022 11:49:06 AM	67332
Toluene	ND	0.049		mg/Kg	1	5/9/2022 11:49:06 AM	67332
Ethylbenzene	ND	0.049		mg/Kg	1	5/9/2022 11:49:06 AM	67332
Xylenes, Total	ND	0.099		mg/Kg	1	5/9/2022 11:49:06 AM	67332
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	5/9/2022 11:49:06 AM	67332

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

Qualifiers:

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

Analytical Report
Lab Order **2205383**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S1-3
Project: Amole AMM State 2 **Collection Date:** 5/5/2022 2:55:00 PM
Lab ID: 2205383-003 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	430	59		mg/Kg	20	5/9/2022 10:01:42 PM	67355
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/10/2022 3:58:16 AM	67344
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/10/2022 3:58:16 AM	67344
Surr: DNOP	103	51.1-141		%Rec	1	5/10/2022 3:58:16 AM	67344
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/9/2022 12:59:47 PM	67332
Surr: BFB	101	37.7-212		%Rec	1	5/9/2022 12:59:47 PM	67332
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/9/2022 12:59:47 PM	67332
Toluene	ND	0.049		mg/Kg	1	5/9/2022 12:59:47 PM	67332
Ethylbenzene	ND	0.049		mg/Kg	1	5/9/2022 12:59:47 PM	67332
Xylenes, Total	ND	0.098		mg/Kg	1	5/9/2022 12:59:47 PM	67332
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	5/9/2022 12:59:47 PM	67332

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

Qualifiers:

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

Analytical Report
Lab Order **2205383**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W1-1
Project: Amole AMM State 2 **Collection Date:** 5/5/2022 2:47:00 PM
Lab ID: 2205383-004 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	190	60		mg/Kg	20	5/9/2022 10:14:06 PM	67355
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/10/2022 4:21:53 AM	67344
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/10/2022 4:21:53 AM	67344
Surr: DNOP	79.8	51.1-141		%Rec	1	5/10/2022 4:21:53 AM	67344
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/9/2022 1:23:11 PM	67332
Surr: BFB	103	37.7-212		%Rec	1	5/9/2022 1:23:11 PM	67332
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/9/2022 1:23:11 PM	67332
Toluene	ND	0.050		mg/Kg	1	5/9/2022 1:23:11 PM	67332
Ethylbenzene	ND	0.050		mg/Kg	1	5/9/2022 1:23:11 PM	67332
Xylenes, Total	ND	0.10		mg/Kg	1	5/9/2022 1:23:11 PM	67332
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/9/2022 1:23:11 PM	67332

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

Qualifiers:

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

Analytical Report
Lab Order **2205383**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W1-2
Project: Amole AMM State 2 **Collection Date:** 5/5/2022 2:49:00 PM
Lab ID: 2205383-005 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	78	60		mg/Kg	20	5/9/2022 10:26:31 PM	67355
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/10/2022 4:45:32 AM	67344
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/10/2022 4:45:32 AM	67344
Surr: DNOP	82.5	51.1-141		%Rec	1	5/10/2022 4:45:32 AM	67344
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/9/2022 1:46:36 PM	67332
Surr: BFB	102	37.7-212		%Rec	1	5/9/2022 1:46:36 PM	67332
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/9/2022 1:46:36 PM	67332
Toluene	ND	0.050		mg/Kg	1	5/9/2022 1:46:36 PM	67332
Ethylbenzene	ND	0.050		mg/Kg	1	5/9/2022 1:46:36 PM	67332
Xylenes, Total	ND	0.10		mg/Kg	1	5/9/2022 1:46:36 PM	67332
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	5/9/2022 1:46:36 PM	67332

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

Qualifiers:

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

Analytical Report
Lab Order **2205383**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S1-4
Project: Amole AMM State 2 **Collection Date:** 5/6/2022 11:19:00 AM
Lab ID: 2205383-006 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	190	60		mg/Kg	20	5/9/2022 10:38:56 PM	67355
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/10/2022 5:09:11 AM	67344
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/10/2022 5:09:11 AM	67344
Surr: DNOP	87.0	51.1-141		%Rec	1	5/10/2022 5:09:11 AM	67344
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/9/2022 2:10:12 PM	67332
Surr: BFB	101	37.7-212		%Rec	1	5/9/2022 2:10:12 PM	67332
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/9/2022 2:10:12 PM	67332
Toluene	ND	0.050		mg/Kg	1	5/9/2022 2:10:12 PM	67332
Ethylbenzene	ND	0.050		mg/Kg	1	5/9/2022 2:10:12 PM	67332
Xylenes, Total	ND	0.099		mg/Kg	1	5/9/2022 2:10:12 PM	67332
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	5/9/2022 2:10:12 PM	67332

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

Qualifiers:

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

Analytical Report
Lab Order **2205383**
Date Reported: **5/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W1-3
Project: Amole AMM State 2 **Collection Date:** 5/6/2022 11:21:00 AM
Lab ID: 2205383-007 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	220	60		mg/Kg	20	5/9/2022 10:51:21 PM	67355
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/10/2022 5:32:45 AM	67344
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/10/2022 5:32:45 AM	67344
Surr: DNOP	87.9	51.1-141		%Rec	1	5/10/2022 5:32:45 AM	67344
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/9/2022 2:33:42 PM	67332
Surr: BFB	102	37.7-212		%Rec	1	5/9/2022 2:33:42 PM	67332
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/9/2022 2:33:42 PM	67332
Toluene	ND	0.049		mg/Kg	1	5/9/2022 2:33:42 PM	67332
Ethylbenzene	ND	0.049		mg/Kg	1	5/9/2022 2:33:42 PM	67332
Xylenes, Total	ND	0.099		mg/Kg	1	5/9/2022 2:33:42 PM	67332
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	5/9/2022 2:33:42 PM	67332

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205383**

11-May-22

Client: EOG

Project: Amole AMM State 2

Sample ID: **MB-67355**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67355**	RunNo: **87857**
Prep Date: **5/9/2022**	Analysis Date: **5/9/2022**	SeqNo: **3112677** Units: **mg/Kg**

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

Sample ID: **LCS-67355**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67355**	RunNo: **87857**
Prep Date: **5/9/2022**	Analysis Date: **5/9/2022**	SeqNo: **3112678** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205383**

11-May-22

Client: EOG

Project: Amole AMM State 2

Sample ID: **LCS-67344**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67344**	RunNo: **87838**
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3112642** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.1	68.9	135			
Surr: DNOP	4.9		5.000		98.7	51.1	141			

Sample ID: **MB-67344**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67344**	RunNo: **87838**
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3112643** 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	10		10.00		100	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205383**

11-May-22

Client: EOG

Project: Amole AMM State 2

Sample ID: **mb-67332**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67332**	RunNo: **87848**
Prep Date: **5/7/2022**	Analysis Date: **5/9/2022**	SeqNo: **3112204** 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		104	37.7	212			

Sample ID: **lcs-67332**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67332**	RunNo: **87848**
Prep Date: **5/7/2022**	Analysis Date: **5/9/2022**	SeqNo: **3112205** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.4	72.3	137			
Surr: BFB	2200		1000		220	37.7	212			S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205383**

11-May-22

Client: EOG

Project: Amole AMM State 2

Sample ID: **mb-67332**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67332**	RunNo: **87848**
Prep Date: **5/7/2022**	Analysis Date: **5/9/2022**	SeqNo: **3112245** 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		101	70	130			

Sample ID: **LCS-67332**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67332**	RunNo: **87848**
Prep Date: **5/7/2022**	Analysis Date: **5/9/2022**	SeqNo: **3112246** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.0	80	120			
Toluene	0.90	0.050	1.000	0	89.6	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG Work Order Number: 2205383 RcptNo: 1

Received By: Cheyenne Cason 5/7/2022 7:50:00 AM

Completed By: Cheyenne Cason 5/7/2022 8:12:52 AM

Reviewed By: VP 5/7/22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
5. Sample(s) in proper container(s)? Not required 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 CM 5/7/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	7.0	Good	Not Present			

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

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

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

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

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☒ Rush 24-hr.

Project Name:
A MOLE AMM State #2

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☒ Yes ☐ No

# of Coolers: 1 ~~4.9 - 0.1 = 4.8~~ CMC 5/7/22

Cooler Temp(including CF): 7.1 -0.1 = 7.0

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. 2205383	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
5/5/22	1451	Soil	S1-1	1 x 4oz. Jar	Ice	001	X	X	X
	1453		S1-2			002			
	1455		S1-3			003			
	1447		W1-1			004			
	1449		W1-2			005			
5/6/22	1119		S1-4			006			
	1121		~~W~~1-3			007			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/6/22	1245	W. Kennedy			5/6/22	1245
5/6/22	1900		CMC Comm		5/7/22	0750

Remarks: Bill to EOG Artesia

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 08, 2022

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

RE: Amole AMM State 2 OrderNo.: 2206238

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/4/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2206238**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W2-2
Project: Amole AMM State 2
Collection Date: 6/2/2022 2:35:00 PM
Lab ID: 2206238-001 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	100	60		mg/Kg	20	6/6/2022 9:52:54 PM	67923
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/6/2022 12:03:00 PM	67906
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/6/2022 12:03:00 PM	67906
Surr: DNOP	108	51.1-141		%Rec	1	6/6/2022 12:03:00 PM	67906
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	6/6/2022 9:32:40 AM	G88491
Surr: BFB	97.6	37.7-212		%Rec	1	6/6/2022 9:32:40 AM	G88491
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	6/6/2022 9:32:40 AM	B88491
Toluene	ND	0.036		mg/Kg	1	6/6/2022 9:32:40 AM	B88491
Ethylbenzene	ND	0.036		mg/Kg	1	6/6/2022 9:32:40 AM	B88491
Xylenes, Total	ND	0.072		mg/Kg	1	6/6/2022 9:32:40 AM	B88491
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	6/6/2022 9:32:40 AM	B88491

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

Qualifiers:

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

Analytical Report
Lab Order **2206238**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W2-3
Project: Amole AMM State 2 **Collection Date:** 6/2/2022 2:56:00 PM
Lab ID: 2206238-002 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	6/6/2022 10:05:18 PM	67923
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	22	9.7		mg/Kg	1	6/6/2022 12:26:49 PM	67906
Motor Oil Range Organics (MRO)	50	48		mg/Kg	1	6/6/2022 12:26:49 PM	67906
Surr: DNOP	98.2	51.1-141		%Rec	1	6/6/2022 12:26:49 PM	67906
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	6/6/2022 9:56:17 AM	G88491
Surr: BFB	97.0	37.7-212		%Rec	1	6/6/2022 9:56:17 AM	G88491
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.015		mg/Kg	1	6/6/2022 9:56:17 AM	B88491
Toluene	ND	0.030		mg/Kg	1	6/6/2022 9:56:17 AM	B88491
Ethylbenzene	ND	0.030		mg/Kg	1	6/6/2022 9:56:17 AM	B88491
Xylenes, Total	ND	0.061		mg/Kg	1	6/6/2022 9:56:17 AM	B88491
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	6/6/2022 9:56:17 AM	B88491

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

Qualifiers:

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

Analytical Report
Lab Order **2206238**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: S2-4
Project: Amole AMM State 2
Collection Date: 6/2/2022 2:40:00 PM
Lab ID: 2206238-003 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	3400	150		mg/Kg	50	6/7/2022 4:10:40 PM	67923
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/6/2022 12:50:40 PM	67906
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/6/2022 12:50:40 PM	67906
Surr: DNOP	100	51.1-141		%Rec	1	6/6/2022 12:50:40 PM	67906
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	6/6/2022 10:19:48 AM	G88491
Surr: BFB	99.0	37.7-212		%Rec	1	6/6/2022 10:19:48 AM	G88491
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	6/6/2022 10:19:48 AM	B88491
Toluene	ND	0.042		mg/Kg	1	6/6/2022 10:19:48 AM	B88491
Ethylbenzene	ND	0.042		mg/Kg	1	6/6/2022 10:19:48 AM	B88491
Xylenes, Total	ND	0.085		mg/Kg	1	6/6/2022 10:19:48 AM	B88491
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	6/6/2022 10:19:48 AM	B88491

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

Qualifiers:

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

Analytical Report
Lab Order **2206238**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: BL-1
Project: Amole AMM State 2
Collection Date: 6/2/2022 4:29:00 PM
Lab ID: 2206238-004 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	9900	600		mg/Kg	200	6/7/2022 10:26:29 AM	67923
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	510	9.6		mg/Kg	1	6/6/2022 1:14:31 PM	67906
Motor Oil Range Organics (MRO)	230	48		mg/Kg	1	6/6/2022 1:14:31 PM	67906
Surr: DNOP	113	51.1-141		%Rec	1	6/6/2022 1:14:31 PM	67906
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	6/6/2022 10:43:18 AM	G88491
Surr: BFB	99.8	37.7-212		%Rec	5	6/6/2022 10:43:18 AM	G88491
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.10		mg/Kg	5	6/6/2022 10:43:18 AM	B88491
Toluene	ND	0.20		mg/Kg	5	6/6/2022 10:43:18 AM	B88491
Ethylbenzene	ND	0.20		mg/Kg	5	6/6/2022 10:43:18 AM	B88491
Xylenes, Total	ND	0.40		mg/Kg	5	6/6/2022 10:43:18 AM	B88491
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	5	6/6/2022 10:43:18 AM	B88491

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2206238**
08-Jun-22

Client: EOG
Project: Amole AMM State 2

Sample ID: **MB-67906**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67906**	RunNo: **88501**
Prep Date: **6/6/2022**	Analysis Date: **6/6/2022**	SeqNo: **3139962** 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	9.7		10.00		96.9	51.1	141			

Sample ID: **LCS-67906**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67906**	RunNo: **88501**
Prep Date: **6/6/2022**	Analysis Date: **6/6/2022**	SeqNo: **3139963** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	10	100.0	0	111	64.4	127			
Surr: DNOP	10		10.00		102	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2206238**
08-Jun-22

Client: EOG
Project: Amole AMM State 2

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G88491**	RunNo: **88491**
Prep Date:	Analysis Date: **6/6/2022**	SeqNo: **3140241** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.4	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G88491**	RunNo: **88491**
Prep Date:	Analysis Date: **6/6/2022**	SeqNo: **3140242** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	72.3	137			
Surr: BFB	2100		1000		211	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206238**

08-Jun-22

Client: EOG

Project: Amole AMM State 2

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B88491**	RunNo: **88491**
Prep Date:	Analysis Date: **6/6/2022**	SeqNo: **3140278** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.7	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B88491**	RunNo: **88491**
Prep Date:	Analysis Date: **6/6/2022**	SeqNo: **3140279** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.5	80	120			
Toluene	0.96	0.050	1.000	0	96.1	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG Work Order Number: 2206238 RcptNo: 1

Received By: Tracy Casarrubias 6/4/2022 9:55:00 AM

Completed By: Tracy Casarrubias 6/4/2022 11:42:24 AM

Reviewed By: JC 6-4-22

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.9	Good	Yes			

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

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

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

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

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 24 HR

Project Name: AMOLE AMM STATE #2

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KIERDORF

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 5.9 -0 = 5.9

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. 2206228	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
6/2/22	1435	SOIL	W2-2	1x4oz JAR	ICE	001	X	X	X
"	1456	"	W2-3	"	"	002	"	"	"
"	1440	"	S2-4	"	"	003	"	"	"
"	1629	"	BL-1	"	"	004	"	"	"

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/3/2022	0700				6/3/22	700
6/3/22	1900				6/14/22	9:55

Remarks: Bill to EOG Artesia

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 08, 2022

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

RE: Amole AMM State 2 OrderNo.: 2206158

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/3/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2206158**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S2-1
Project: Amole AMM State 2 **Collection Date:** 6/2/2022 8:24:00 AM
Lab ID: 2206158-001 **Matrix:** MEOH (SOIL) **Received Date:** 6/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	540	60		mg/Kg	20	6/3/2022 8:24:37 PM	67884
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	29	9.6		mg/Kg	1	6/3/2022 12:08:29 PM	67876
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/3/2022 12:08:29 PM	67876
Surr: DNOP	101	51.1-141		%Rec	1	6/3/2022 12:08:29 PM	67876
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	6/3/2022 7:17:00 PM	A88476
Surr: BFB	89.3	37.7-212		%Rec	1	6/3/2022 7:17:00 PM	A88476
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.019		mg/Kg	1	6/3/2022 7:17:00 PM	B88476
Toluene	ND	0.037		mg/Kg	1	6/3/2022 7:17:00 PM	B88476
Ethylbenzene	ND	0.037		mg/Kg	1	6/3/2022 7:17:00 PM	B88476
Xylenes, Total	ND	0.075		mg/Kg	1	6/3/2022 7:17:00 PM	B88476
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	6/3/2022 7:17:00 PM	B88476

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

Qualifiers:

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

Analytical Report
Lab Order **2206158**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S2-2
Project: Amole AMM State 2 **Collection Date:** 6/2/2022 8:29:00 AM
Lab ID: 2206158-002 **Matrix:** MEOH (SOIL) **Received Date:** 6/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1500	61		mg/Kg	20	6/3/2022 8:36:58 PM	67884
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/3/2022 12:32:47 PM	67876
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/3/2022 12:32:47 PM	67876
Surr: DNOP	90.2	51.1-141		%Rec	1	6/3/2022 12:32:47 PM	67876
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	6/3/2022 8:16:00 PM	A88476
Surr: BFB	87.4	37.7-212		%Rec	1	6/3/2022 8:16:00 PM	A88476
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.020		mg/Kg	1	6/3/2022 8:16:00 PM	B88476
Toluene	ND	0.039		mg/Kg	1	6/3/2022 8:16:00 PM	B88476
Ethylbenzene	ND	0.039		mg/Kg	1	6/3/2022 8:16:00 PM	B88476
Xylenes, Total	ND	0.078		mg/Kg	1	6/3/2022 8:16:00 PM	B88476
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	1	6/3/2022 8:16:00 PM	B88476

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

Qualifiers:

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

Analytical Report
Lab Order **2206158**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S2-3
Project: Amole AMM State 2 **Collection Date:** 6/2/2022 10:08:00 AM
Lab ID: 2206158-003 **Matrix:** MEOH (SOIL) **Received Date:** 6/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	3300	150		mg/Kg	50	6/4/2022 9:05:33 PM	67884
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	16	9.7		mg/Kg	1	6/3/2022 12:56:58 PM	67876
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/3/2022 12:56:58 PM	67876
Surr: DNOP	99.0	51.1-141		%Rec	1	6/3/2022 12:56:58 PM	67876
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/3/2022 9:14:00 PM	A88476
Surr: BFB	84.0	37.7-212		%Rec	1	6/3/2022 9:14:00 PM	A88476
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	6/3/2022 9:14:00 PM	B88476
Toluene	ND	0.046		mg/Kg	1	6/3/2022 9:14:00 PM	B88476
Ethylbenzene	ND	0.046		mg/Kg	1	6/3/2022 9:14:00 PM	B88476
Xylenes, Total	ND	0.092		mg/Kg	1	6/3/2022 9:14:00 PM	B88476
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	6/3/2022 9:14:00 PM	B88476

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

Qualifiers:

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

Analytical Report
Lab Order **2206158**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W2-1
Project: Amole AMM State 2 **Collection Date:** 6/2/2022 10:37:00 AM
Lab ID: 2206158-004 **Matrix:** MEOH (SOIL) **Received Date:** 6/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	160	60		mg/Kg	20	6/3/2022 9:26:22 PM	67884
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/3/2022 1:21:18 PM	67876
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/3/2022 1:21:18 PM	67876
Surr: DNOP	99.3	51.1-141		%Rec	1	6/3/2022 1:21:18 PM	67876
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	6/3/2022 9:34:00 PM	A88476
Surr: BFB	85.9	37.7-212		%Rec	1	6/3/2022 9:34:00 PM	A88476
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.017		mg/Kg	1	6/3/2022 9:34:00 PM	B88476
Toluene	ND	0.034		mg/Kg	1	6/3/2022 9:34:00 PM	B88476
Ethylbenzene	ND	0.034		mg/Kg	1	6/3/2022 9:34:00 PM	B88476
Xylenes, Total	ND	0.067		mg/Kg	1	6/3/2022 9:34:00 PM	B88476
Surr: 4-Bromofluorobenzene	84.5	70-130		%Rec	1	6/3/2022 9:34:00 PM	B88476

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206158**

08-Jun-22

Client: EOG

Project: Amole AMM State 2

Sample ID: **MB-67884**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67884**	RunNo: **88479**
Prep Date: **6/3/2022**	Analysis Date: **6/3/2022**	SeqNo: **3139008** Units: **mg/Kg**

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

Sample ID: **LCS-67884**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67884**	RunNo: **88479**
Prep Date: **6/3/2022**	Analysis Date: **6/3/2022**	SeqNo: **3139009** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.8	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206158**

08-Jun-22

Client: EOG

Project: Amole AMM State 2

Sample ID: **LCS-67876**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67876**	RunNo: **88444**
Prep Date: **6/3/2022**	Analysis Date: **6/3/2022**	SeqNo: **3139874** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.0	64.4	127			
Surr: DNOP	3.8		5.000		75.5	51.1	141			

Sample ID: **MB-67876**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67876**	RunNo: **88444**
Prep Date: **6/3/2022**	Analysis Date: **6/3/2022**	SeqNo: **3139876** 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	9.6		10.00		96.5	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206158**

08-Jun-22

Client: EOG

Project: Amole AMM State 2

Sample ID: **lcs-67862**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67862**	RunNo: **88476**
Prep Date: **6/2/2022**	Analysis Date: **6/3/2022**	SeqNo: **3138847** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1800		1000		184	37.7	212			

Sample ID: **mb-67862**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67862**	RunNo: **88476**
Prep Date: **6/2/2022**	Analysis Date: **6/3/2022**	SeqNo: **3138848** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	870		1000		87.1	37.7	212			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **A88476**	RunNo: **88476**
Prep Date:	Analysis Date: **6/3/2022**	SeqNo: **3138872** 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	960		1000		96.3	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206158**

08-Jun-22

Client: EOG

Project: Amole AMM State 2

Sample ID: **lcs-67862**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67862**	RunNo: **88476**
Prep Date: **6/2/2022**	Analysis Date: **6/3/2022**	SeqNo: **3138879** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.89		1.000		89.2	70	130			

Sample ID: **mb-67862**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67862**	RunNo: **88476**
Prep Date: **6/2/2022**	Analysis Date: **6/3/2022**	SeqNo: **3138880** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.87		1.000		86.8	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B88476**	RunNo: **88476**
Prep Date:	Analysis Date: **6/3/2022**	SeqNo: **3138903** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.3	80	120			
Toluene	0.95	0.050	1.000	0	94.6	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B88476**	RunNo: **88476**
Prep Date:	Analysis Date: **6/3/2022**	SeqNo: **3138904** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.0	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG Work Order Number: 2206158 RcptNo: 1

Received By: Cheyenne Cason 6/3/2022 7:00:00 AM

Completed By: Cheyenne Cason 6/3/2022 7:19:18 AM

Reviewed By: 6.3.22

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Not Present			

Chain-of-Custody Record

1 of 1

Client: EOG-Artesia / Ranger Env.

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

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☒ **Rush** 24-HR

Project Name: AMOLE AMM STATE #2

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KIERDORF

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.4 -0.1 = 1.3

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. 2206158	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
6/1/22	0824	SOIL	S2-1	1x 4oz JAR	ICE	001	X	X	X
"	0829	"	S2-2	"	"	002	"	"	"
"	1008	"	S2-3	"	"	003	"	"	"
"	1037	"	W2-1	"	"	004	"	"	"

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/2/22	1234				6/2/22	1234
6/2/22	1900			CMC Courier	6/3/22	0700

Remarks: Bill to EOG Artesia

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

ATTACHMENT 3 – NMOCD CORRESPONDENCE

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, February 8, 2022 3:47 PM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 60983

To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2124435578, with the following conditions:

- **None**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-476-3441
Jennifer.Nobui@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

napp2124435578_...

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, May 2, 2022 3:43 PM
To: Robert.Hamlet@state.nm.us; rmann@slo.state.nm.us; mnaranjo@slo.state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Amole AMM State Com 2 (nAPP2124435578) Sampling Notification

Good Afternoon,

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

Amole AMM State Com 2
K-16-19S-25E; Eddy County, NM
nAPP2124435578

Sampling will begin at 8:00 a.m. on Thursday, May 5, 2022.

Thank you,

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

eog resources

Artesia Division

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, May 25, 2022 3:46 PM
To: Robert.Hamlet@state.nm.us; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Jennifer.Nobui@state.nm.us; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Amole AMM State 2 (nAPP2124435578) Sampling Notification

Good Afternoon,

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

Amole AMM State 2
K-16-19S-25E; Eddy County, NM
nAPP2124435578

Sampling will begin at 7:00 a.m. on Thursday, June 2, 2022.

Thank you,

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

eog resources

Artesia Division

ATTACHMENT 4 – STATE LAND OFFICE LOAMY SITES SEED MIXTURE

NMSLO Seed Mix — Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
Forbs:			
Firewheel (*Gaillardia*)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
	Total PLS/acre	**18.0**	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.

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

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

CONDITIONS

Action 115467

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 115467
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/15/2022