

Incident ID	nAPP2208337232
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: Chase Settle Title: Rep Safety & Environmental Sr  
 Signature: Chase Settle Date: 11/28/2022  
 email: Chase\_Settle@eogresources.com Telephone: 575-748-1471

**OCD Only**

Received by: Robert Hamlet Date: 4/24/2023

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: Robert Hamlet Date: 4/24/2023  
 Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



**SITE REMEDIATION AND CLOSURE REPORT**

**COPELAN FEDERAL #1  
UNIT N, SECTION 5, TOWNSHIP 19S, RANGE 25E  
LEA COUNTY, NEW MEXICO  
32.68459, -104.50919  
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**

**NOVEMBER 28, 2022**

A blue ink signature of Patrick K. Finn, consisting of a stylized 'P' followed by a horizontal line.

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

A blue ink signature of William Kierdorf, consisting of a stylized 'W' followed by a horizontal line.

**William Kierdorf, REM  
Project Manager**

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**FORM C-141**

**FIGURES**

- Topographic Map
- Area Map
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- 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



**SITE REMEDIATION AND CLOSURE REPORT  
COPELAN FEDERAL #1  
UNIT N, SECTION 5, TOWNSHIP 19S, RANGE 25E  
LEA COUNTY, NEW MEXICO  
32.68459, -104.50919  
RANGER REFERENCE NO. 5375**

## **1.0 SITE LOCATION AND BACKGROUND**

The Copelan Federal #1 (Site) is a former oil and gas well location historically operated by EOG Resources, Inc. (EOG). The Site is located on State land, approximately 12.6 miles south-southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit N, Section 5, T19S-R25E at GPS coordinates 32.68459, -104.50919.

On June 9, 2021, EOG was informed of an area of potential contamination located to the south of the former well pad location. The area was reported to EOG by Atkins Engineering Associates (AEA) on behalf of Howell Ranch Revocable Trust (Howell Ranch). The notice included details of the reported location and preliminary laboratory data indicating a sample collected in the area exhibited a chloride concentration of 4,000 parts per million.

On June 10, 2021, a Bureau of Land Management (BLM) Notice of Written Order was received by EOG regarding the subject Site. The notice outlined a lack of vegetation on the former well pad area and access road. The notice also noted the area south of the former well pad previously reported to EOG by AEA.

EOG Resources, Inc. (EOG) subsequently engaged Ranger Environmental Services, LLC (Ranger) to assist in the assessment of the reported area and to address the outstanding reclamation efforts at the Site. On June 24, 2021, Ranger and EOG personnel conducted an initial site inspection to document the current conditions at the location and determine an appropriate course of action for the Site. On August 27, 2021, Ranger prepared a *Proposed Assessment and Reclamation Plan* to address the outstanding reclamation efforts and assessment of the reported area. A copy of the plan is available upon request.

In March 2022, Ranger personnel completed the assessment activities detailed in the *Proposed Assessment and Reclamation Plan*. Upon completion of the assessment activities, all field readings and laboratory analytical results indicated that the area reported to EOG by AEA contained soil concentrations within the applicable 19.15.29.12 Table 1 Criteria.

Prior to commencement of the proposed reclamation activities, in February 2022, EOG was alerted to an additional area of concern identified by Howell Ranch Representatives. Based on the supplied information, an Electromagnetic (EM) Survey had been completed at the Site. The findings of the EM survey indicated that multiple areas of elevated conductivity, possibly related to elevated chloride concentrations, were identified at the Site. Ranger personnel subsequently conducted assessment activities at the reported areas in February and March of 2022 which included the collection of soil samples for laboratory analysis. Due to the observed size of the

impacted areas, the incident was reported to the New Mexico Oil Conservation Division (NMOCD) on March 24, 2022 (NMOCD Incident # nAPP2208337232). On June 16, 2022, a *Site Characterization and Proposed Remediation Plan* (Remediation Plan) was prepared and sent to the NMOCD. The Plan included a site characterization, site assessment results, and a proposed remediation plan. The Remediation Plan was approved by the NMOCD on October 25, 2022 with the condition that cleanup confirmation soil samples be collected in accordance with NMAC 19.15.29.12(D) as five-part composite samples representative of no more than 200 square feet.

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

A copy of the previously submitted Form C-141 *Release Notification and 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 are provided in the Figures section. A *Final Excavation and Confirmation Sample Location Map* is also provided in the Figures section which illustrates the excavation boundaries and depths and the locations of the cleanup confirmation soil samples.

## 2.0 SITE REMEDIATION

### 2.1 Impacted Soil Removal and Confirmation Soil Sampling

From October 20, 2022 to October 31, 2022, soil removal operations were conducted at the Site. During the excavation process, Ranger personnel collected field readings from the excavated areas utilizing an organic vapor monitor (OVM) and field chloride titration kit to assist in guiding the excavation to appropriate boundaries. Upon completion, the excavation in the southern pad area had maximum dimensions of approximately 95 feet by 92 feet and was completed to depths of approximately two and four feet below ground surface (bgs). The northern excavation area was rectangular in shape and was completed to maximum dimensions of approximately 51 feet by 35 feet and was completed to a depth of approximately four feet bgs.

To assess the excavated areas and confirm that the excavations had been completed to appropriate boundaries, cleanup confirmation soil sampling activities were conducted on October 31, 2022 and November 14, 2022. The cleanup confirmation soil samples were collected from various locations in the excavation base and along the excavation side walls in accordance with NMAC 19.15.29.12(D), as five-part composite samples representative of no more than 200 square feet. A total of 44 soil samples were collected from the excavation areas.

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.

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

A *Final Excavation and Confirmation Sample Location Map* is provided in the Figures section which illustrates the excavation boundaries and depths and the locations of the cleanup confirmation soil samples.



## **2.2 Final Confirmation Sample Results**

Upon review of the final cleanup confirmation sample results, all areas have been brought into attainment of the Restoration, Reclamation and Re-Vegetation criteria detailed in NMAC 19.15.29.13 and/or NMAC 19.15.9.12 Table 1 (DTGW >100') criteria. A comprehensive sample results table summarizing the laboratory analytical results for all of the cleanup confirmation soil samples collected during the remediation process is attached. Copies of the laboratory analytical reports including chain-of-custody documentation are also attached.

## **2.3 Waste Disposal**

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

## **3.0 SITE CLOSURE**

### **3.1 Site Backfill & Revegetation**

Based on the soil sample laboratory results, the excavated area will be backfilled with clean fill material.

Revegetation efforts will be completed with the outstanding reclamation associated with the Copelan Federal #1 well pad.

### **3.2 Closure Request**

Based on the results of the cleanup confirmation soil sampling events, 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

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

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

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## Release Notification

### Responsible Party

Responsible Party <b>EOG Resources, Inc.</b>	OGRID <b>7377</b>
Contact Name <b>Chase Settle</b>	Contact Telephone <b>575-748-1471</b>
Contact email <b>Chase_Settle@eogresources.com</b>	Incident # <b>nAPP2208337232</b>
Contact mailing address <b>104 S. 4th Street, Artesia, NM 88210</b>	

### Location of Release Source

Latitude 32.68459 Longitude -104.50919  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name <b>Copelan Federal #1</b>	Site Type <b>Well Pad</b>
Date Release Discovered <b>03/23/2022</b>	API# <b>30-015-23720</b>

Unit Letter	Section	Township	Range	County
N	5	19S	25E	Eddy

Surface Owner:  State  Federal  Tribal  Private (Name: Howell Ranch)

### Nature and Volume of Release

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

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

Cause of Release **A notice was submitted by the landowner for an area on the previously reclaimed pad that appeared to be impacted. The consultant retained to investigate the area provided notice that it most likely meets reportable criteria on 3/23/2022, based on the initial delineation assessment that has been completed to date.**



State of New Mexico  
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Chase Settle</u> Title: <u>Rep Safety &amp; Environmental Sr</u> Signature: <u>Chase Settle</u> Date: <u>03/24/2022</u> email: <u>Chase_Settle@eogresources.com</u> Telephone: <u>575-748-1471</u>
<b><u>OCD Only</u></b> Received by: <u>Jocelyn Harimon</u> Date: <u>03/24/2022</u>

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

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

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

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

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

State of New Mexico  
Oil Conservation Division

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Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
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## Remediation Plan

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

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

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

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

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Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

- Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
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## Closure

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**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

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Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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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 92894

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 92894
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	3/24/2022

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## 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?	>100' (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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**Characterization Report Checklist:** *Each of the following items must be included in the report.*

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- Field data
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Printed Name: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 06/16/2022

email: Chase\_Settle@eogresources.com Telephone: 575-748-1471

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



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## 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: 06/16/2022  
 email: Chase\_Settle@eogresources.com Telephone: 575-748-1471

**OCD Only**

Received by: Robert Hamlet Date: 10/25/2022

- Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

Signature: Robert Hamlet Date: 10/25/2022

**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 118037

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 118037
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All off pad areas or pad areas considered "land no longer in use" must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. A closure report will need to be completed and uploaded within 90 days.	10/25/2022

Incident ID	nAPP2208337232
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: Chase Settle Title: Rep Safety & Environmental Sr  
 Signature: Chase Settle Date: 11/28/2022  
 email: Chase\_Settle@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: \_\_\_\_\_ Date: \_\_\_\_\_

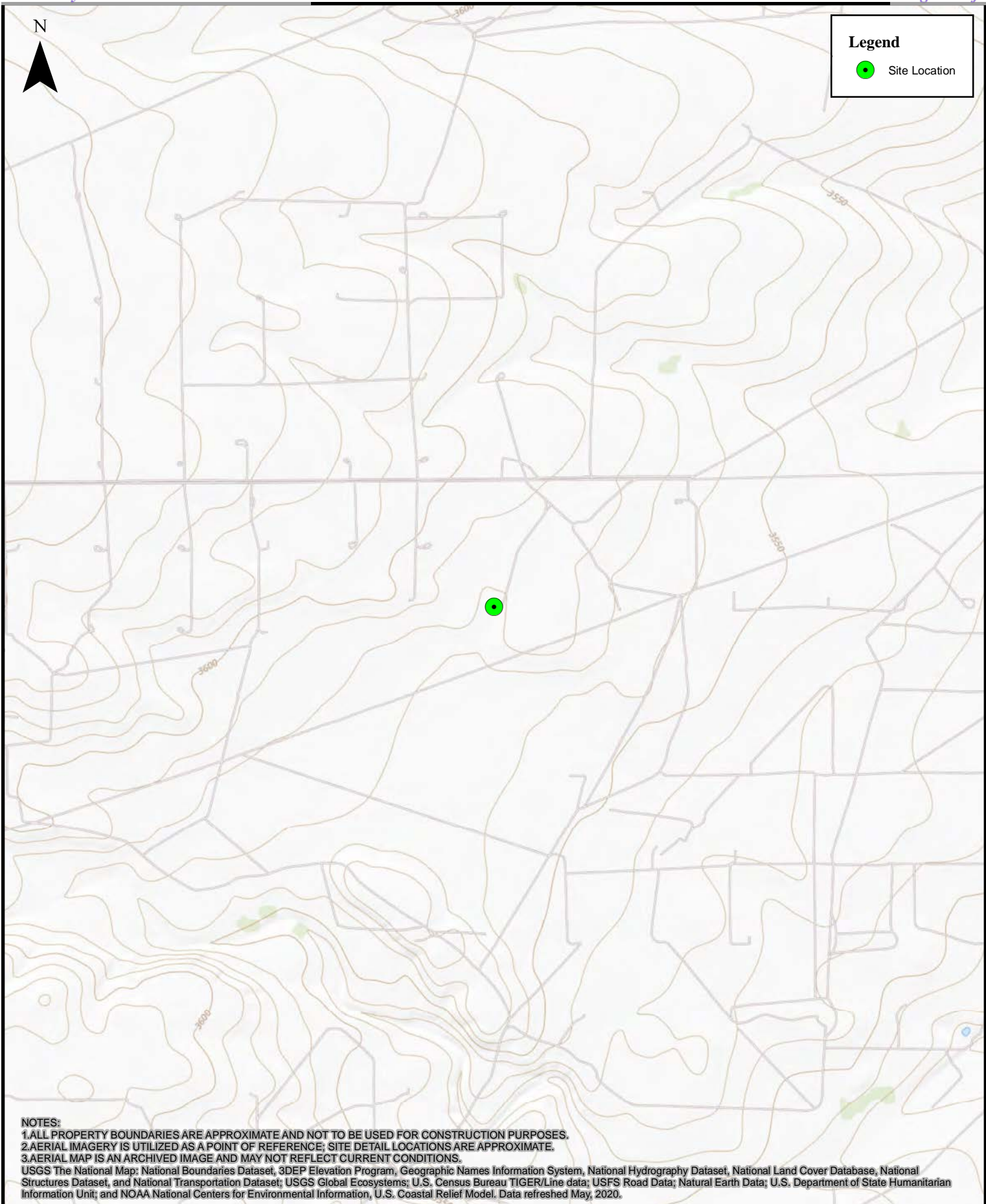
Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## FIGURES

Topographic Map

Area Map

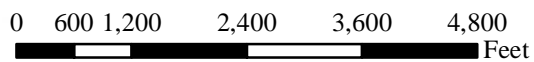
Final Excavation Area and Confirmation Sample Location Map



**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 DETAIL LOCATIONS ARE APPROXIMATE.
- 3. AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.

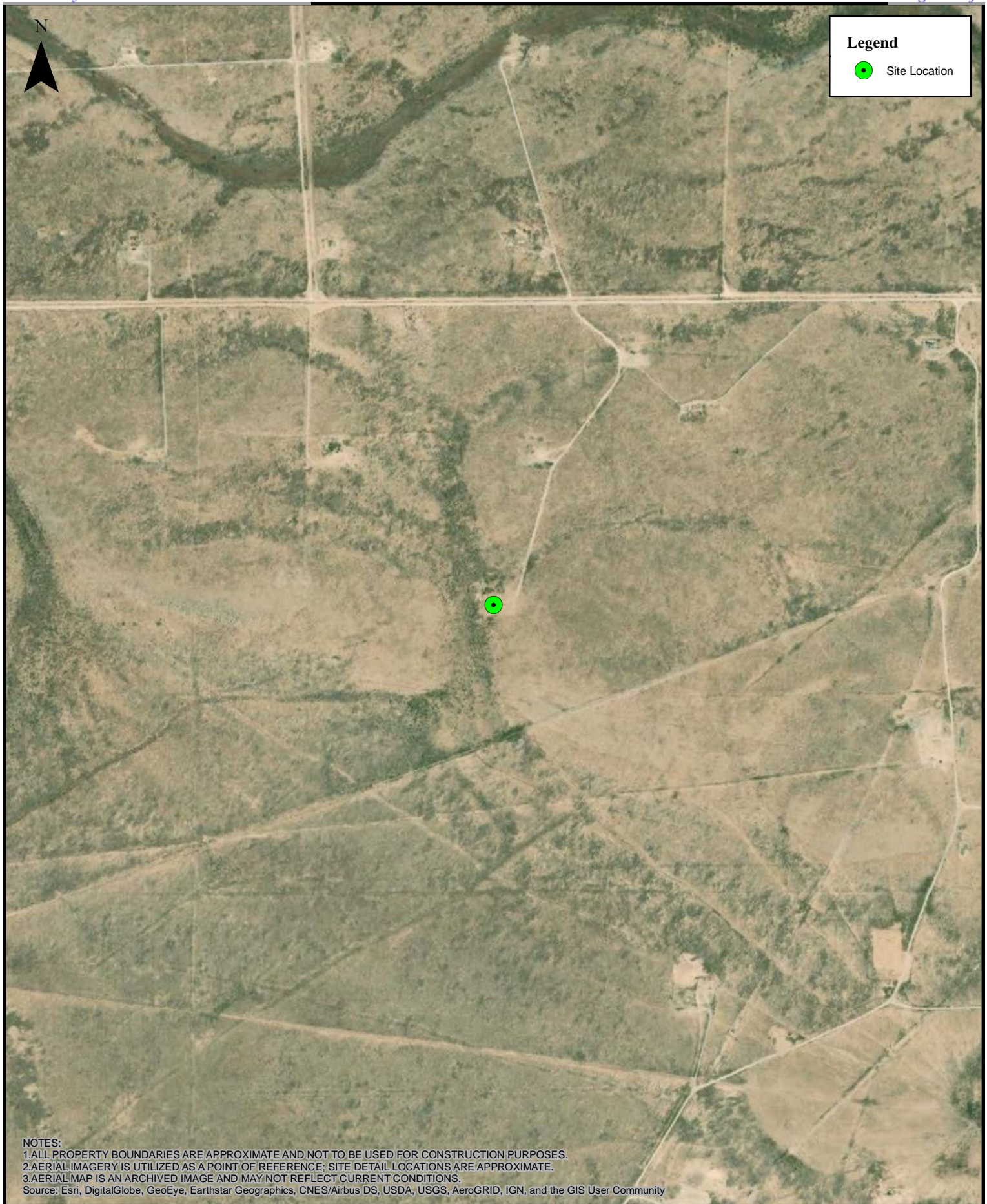
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed May, 2020.



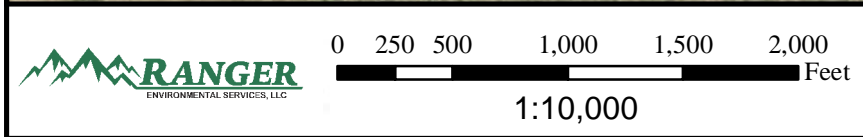
1:24,000

**Topographic Map**  
 Copelan Federal #1  
 EOG Resources, Inc.



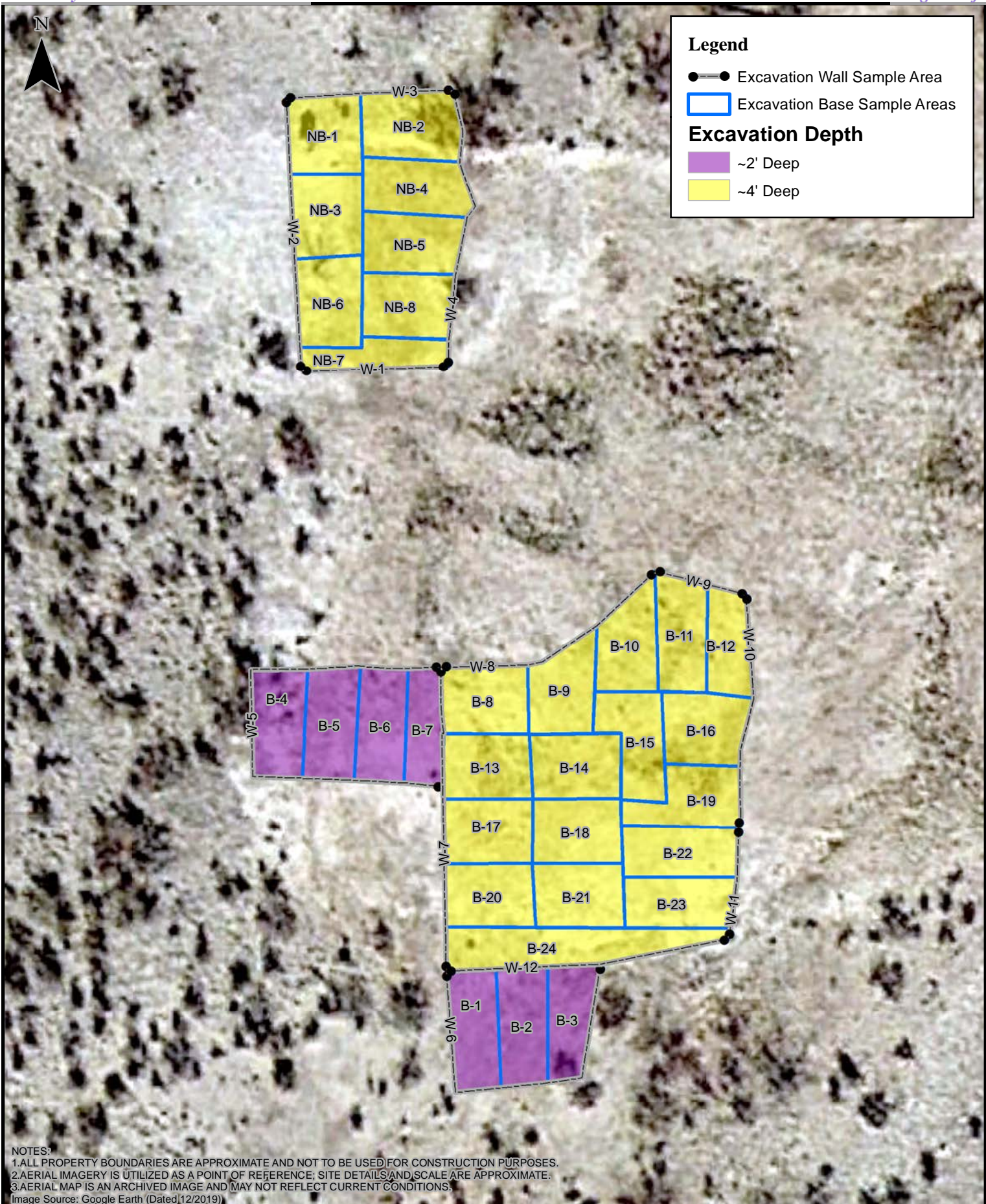


NOTES:  
1. ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.  
2. AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.  
3. AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.  
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

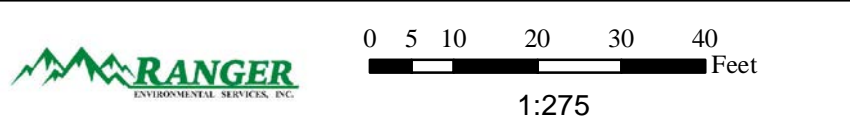


**Area Map**  
Copelan Federal #1  
EOG Resources, Inc.





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 (Dated 12/2019)



**Final Excavation and Confirmation Sample Location Map**  
 Copelan Federal #1  
 EOG Resources, Inc.

## TABLES

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



CONFIRMATION SOIL SAMPLE BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA													
EOG RESOURCES, INC.													
COPELAN FEDERAL #1													
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
<b>Northern Excavation Area</b>													
<i>Excavation Base Soil Samples</i>													
NB-1	10/31/2022	4'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<48	<14	<48	300
NB-2	10/31/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<50	<15	<50	360
NB-3	10/31/2022	4'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<15	<50	<15	<50	1,400
NB-4	10/31/2022	4'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<15	<49	<15	<49	2,000
NB-5	10/31/2022	4'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<47	<14	<47	1,200
NB-6	10/31/2022	4'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<15	<49	<15	<49	640
NB-7	10/31/2022	4'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<15	<50	<15	<50	840
NB-8	11/14/2022	4'	<0.020	<0.041	<0.041	<0.081	<0.08	<4.1	<14	<48	<14	<48	690
<i>Excavation Wall Soil Samples</i>													
W-1	10/31/2022	0'-4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<48	<14	<48	220
W-2	10/31/2022	0'-4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<47	<14	<47	230
W-3	10/31/2022	0'-4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<47	<14	<47	240
W-4	10/31/2022	0'-4'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<14	<48	<14	<48	88
<b>Southern Excavation Area</b>													
<i>Excavation Base Soil Samples</i>													
B-1	10/31/2022	2'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<15	<50	<15	<50	<60
B-2	10/31/2022	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<48	<14	<48	180
B-3	10/31/2022	2'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<15	<50	<15	<50	190
B-4	10/31/2022	2'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<15	<49	<15	<49	<60
B-5	10/31/2022	2'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	19	49	19	68	<60
B-6	10/31/2022	2'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<15	<49	<15	<49	100
B-7	10/31/2022	2'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<48	<14	<48	210
B-8	10/31/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<50	<15	<50	360
B-9	10/31/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<46	<14	<46	300
B-10	10/31/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<47	<14	<47	570
B-11	10/31/2022	4'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<14	<48	<14	<48	640
B-12	10/31/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<14	<47	<14	<47	1,100
B-13	10/31/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<15	<48	<15	<48	380
B-14	10/31/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	23	120	23	143	120
B-15	10/31/2022	4'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<15	<50	<15	<50	350
B-16	10/31/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<47	<14	<47	300
B-17	10/31/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	16	<47	16	16	2,400
B-18	10/31/2022	4'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<48	<14	<48	440
B-19	10/31/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<50	<15	<50	510
B-20	10/31/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<46	<14	<46	1,600
B-21	10/31/2022	4'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<15	<49	<15	<49	1,800
B-22	10/31/2022	4'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<47	<14	<47	450
B-23	10/31/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<46	<14	<46	1,600
B-24	10/31/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<13	<45	<13	<45	2,300
<i>Excavation Wall Soil Samples</i>													
W-5	10/31/2022	0'-2'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<47	<14	<47	<60
W-6	10/31/2022	0'-2'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<48	<14	<48	330
W-7	10/31/2022	0'-2', 0'-4'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<14	<48	<14	<48	430
W-8	10/31/2022	0'-4'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<46	<14	<46	71
W-9	10/31/2022	0'-4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<49	<15	<49	350
W-10	10/31/2022	0'-4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<49	<15	<49	<60
W-11	10/31/2022	0'-4'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<14	<48	<14	<48	360
W-12	10/31/2022	0'-2', 0'-4'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<48	<14	<48	<60
<b>19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW &gt; 100')</b>			<b>10</b>	---	---	---	<b>50</b>	---	---	---	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)</b>			<b>10<sup>3</sup></b>	---	---	---	<b>50<sup>3</sup></b>	---	---	---	---	<b>100<sup>3</sup></b>	<b>600</b>
<b>Notes:</b>													
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 southern excavation/remediation area at the Site upon completion of the soil removal operations. The view is towards the southwest.**

*(Approximate GPS: 32.684714, -104.509101)*



**PHOTOGRAPH NO. 2 – A view of the northern excavation/remediation area at the Site upon completion of the soil removal operations. The view is towards the north.**

*(Approximate GPS: 32.684744, -104.509365)*

# ATTACHMENT 2 – LABORATORY ANALYTICAL REPORTS



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

November 11, 2022

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

RE: Copelan Federal 1

OrderNo.: 2211055

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 43 sample(s) on 11/2/2022 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** NB-1

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 10:07:00 AM

**Lab ID:** 2211055-001

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	300	60		mg/Kg	20	11/4/2022 5:42:39 PM	71297
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/4/2022 2:07:12 PM	71242
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/4/2022 2:07:12 PM	71242
Surr: DNOP	75.0	21-129		%Rec	1	11/4/2022 2:07:12 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2022 2:49:00 PM	71239
Surr: BFB	92.0	37.7-212		%Rec	1	11/3/2022 2:49:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	11/3/2022 2:49:00 PM	71239
Toluene	ND	0.047		mg/Kg	1	11/3/2022 2:49:00 PM	71239
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2022 2:49:00 PM	71239
Xylenes, Total	ND	0.094		mg/Kg	1	11/3/2022 2:49:00 PM	71239
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	11/3/2022 2:49:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		



**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** NB-2

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 10:09:00 AM

**Lab ID:** 2211055-002

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	360	60		mg/Kg	20	11/4/2022 5:55:04 PM	71297
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 4:47:39 PM	71242
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/3/2022 4:47:39 PM	71242
Surr: DNOP	88.4	21-129		%Rec	1	11/3/2022 4:47:39 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/3/2022 3:09:00 PM	71239
Surr: BFB	89.8	37.7-212		%Rec	1	11/3/2022 3:09:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/3/2022 3:09:00 PM	71239
Toluene	ND	0.048		mg/Kg	1	11/3/2022 3:09:00 PM	71239
Ethylbenzene	ND	0.048		mg/Kg	1	11/3/2022 3:09:00 PM	71239
Xylenes, Total	ND	0.096		mg/Kg	1	11/3/2022 3:09:00 PM	71239
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	11/3/2022 3:09:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** NB-3

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 10:11:00 AM

**Lab ID:** 2211055-003

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	1400	60		mg/Kg	20	11/4/2022 6:07:29 PM	71297
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 5:01:57 PM	71242
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/3/2022 5:01:57 PM	71242
Surr: DNOP	110	21-129		%Rec	1	11/3/2022 5:01:57 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/3/2022 3:29:00 PM	71239
Surr: BFB	91.5	37.7-212		%Rec	1	11/3/2022 3:29:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/3/2022 3:29:00 PM	71239
Toluene	ND	0.048		mg/Kg	1	11/3/2022 3:29:00 PM	71239
Ethylbenzene	ND	0.048		mg/Kg	1	11/3/2022 3:29:00 PM	71239
Xylenes, Total	ND	0.095		mg/Kg	1	11/3/2022 3:29:00 PM	71239
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	11/3/2022 3:29:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		



**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** NB-4

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 10:13:00 AM

**Lab ID:** 2211055-004

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	2000	60		mg/Kg	20	11/4/2022 6:19:53 PM	71297
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 5:16:08 PM	71242
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2022 5:16:08 PM	71242
Surr: DNOP	107	21-129		%Rec	1	11/3/2022 5:16:08 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/3/2022 3:48:00 PM	71239
Surr: BFB	96.9	37.7-212		%Rec	1	11/3/2022 3:48:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	11/3/2022 3:48:00 PM	71239
Toluene	ND	0.046		mg/Kg	1	11/3/2022 3:48:00 PM	71239
Ethylbenzene	ND	0.046		mg/Kg	1	11/3/2022 3:48:00 PM	71239
Xylenes, Total	ND	0.092		mg/Kg	1	11/3/2022 3:48:00 PM	71239
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	11/3/2022 3:48:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** NB-5

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 10:15:00 AM

**Lab ID:** 2211055-005

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	1200	60		mg/Kg	20	11/4/2022 6:32:17 PM	71297
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 5:30:14 PM	71242
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2022 5:30:14 PM	71242
Surr: DNOP	102	21-129		%Rec	1	11/3/2022 5:30:14 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2022 4:27:00 PM	71239
Surr: BFB	87.8	37.7-212		%Rec	1	11/3/2022 4:27:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	11/3/2022 4:27:00 PM	71239
Toluene	ND	0.047		mg/Kg	1	11/3/2022 4:27:00 PM	71239
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2022 4:27:00 PM	71239
Xylenes, Total	ND	0.094		mg/Kg	1	11/3/2022 4:27:00 PM	71239
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	11/3/2022 4:27:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** NB-6

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 10:17:00 AM

**Lab ID:** 2211055-006

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	640	60		mg/Kg	20	11/4/2022 7:09:30 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 5:44:21 PM	71242
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2022 5:44:21 PM	71242
Surr: DNOP	82.5	21-129		%Rec	1	11/3/2022 5:44:21 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/3/2022 4:47:00 PM	71239
Surr: BFB	93.9	37.7-212		%Rec	1	11/3/2022 4:47:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	11/3/2022 4:47:00 PM	71239
Toluene	ND	0.046		mg/Kg	1	11/3/2022 4:47:00 PM	71239
Ethylbenzene	ND	0.046		mg/Kg	1	11/3/2022 4:47:00 PM	71239
Xylenes, Total	ND	0.093		mg/Kg	1	11/3/2022 4:47:00 PM	71239
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	11/3/2022 4:47:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** NB-7

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 10:19:00 AM

**Lab ID:** 2211055-007

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	840	60		mg/Kg	20	11/4/2022 7:21:55 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 5:58:24 PM	71242
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/3/2022 5:58:24 PM	71242
Surr: DNOP	84.2	21-129		%Rec	1	11/3/2022 5:58:24 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/3/2022 5:06:00 PM	71239
Surr: BFB	90.8	37.7-212		%Rec	1	11/3/2022 5:06:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/3/2022 5:06:00 PM	71239
Toluene	ND	0.048		mg/Kg	1	11/3/2022 5:06:00 PM	71239
Ethylbenzene	ND	0.048		mg/Kg	1	11/3/2022 5:06:00 PM	71239
Xylenes, Total	ND	0.095		mg/Kg	1	11/3/2022 5:06:00 PM	71239
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	11/3/2022 5:06:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-1

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 12:00:00 PM

**Lab ID:** 2211055-008

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	11/4/2022 8:48:45 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 6:12:36 PM	71242
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/3/2022 6:12:36 PM	71242
Surr: DNOP	83.9	21-129		%Rec	1	11/3/2022 6:12:36 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2022 5:26:00 PM	71239
Surr: BFB	101	37.7-212		%Rec	1	11/3/2022 5:26:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	11/3/2022 5:26:00 PM	71239
Toluene	ND	0.047		mg/Kg	1	11/3/2022 5:26:00 PM	71239
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2022 5:26:00 PM	71239
Xylenes, Total	ND	0.094		mg/Kg	1	11/3/2022 5:26:00 PM	71239
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	11/3/2022 5:26:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-2

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 12:02:00 PM

**Lab ID:** 2211055-009

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	180	60		mg/Kg	20	11/4/2022 9:01:09 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 6:26:36 PM	71242
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2022 6:26:36 PM	71242
Surr: DNOP	74.8	21-129		%Rec	1	11/3/2022 6:26:36 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/3/2022 5:46:00 PM	71239
Surr: BFB	103	37.7-212		%Rec	1	11/3/2022 5:46:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	11/3/2022 5:46:00 PM	71239
Toluene	ND	0.050		mg/Kg	1	11/3/2022 5:46:00 PM	71239
Ethylbenzene	ND	0.050		mg/Kg	1	11/3/2022 5:46:00 PM	71239
Xylenes, Total	ND	0.099		mg/Kg	1	11/3/2022 5:46:00 PM	71239
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	11/3/2022 5:46:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		



**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-3

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 12:04:00 PM

**Lab ID:** 2211055-010

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	190	60		mg/Kg	20	11/4/2022 9:13:33 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 6:40:37 PM	71242
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/3/2022 6:40:37 PM	71242
Surr: DNOP	88.6	21-129		%Rec	1	11/3/2022 6:40:37 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2022 6:06:00 PM	71239
Surr: BFB	93.4	37.7-212		%Rec	1	11/3/2022 6:06:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	11/3/2022 6:06:00 PM	71239
Toluene	ND	0.047		mg/Kg	1	11/3/2022 6:06:00 PM	71239
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2022 6:06:00 PM	71239
Xylenes, Total	ND	0.094		mg/Kg	1	11/3/2022 6:06:00 PM	71239
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	11/3/2022 6:06:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-4

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 12:06:00 PM

**Lab ID:** 2211055-011

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	11/4/2022 9:25:57 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 6:54:32 PM	71242
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2022 6:54:32 PM	71242
Surr: DNOP	82.8	21-129		%Rec	1	11/3/2022 6:54:32 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2022 6:25:00 PM	71239
Surr: BFB	90.0	37.7-212		%Rec	1	11/3/2022 6:25:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	11/3/2022 6:25:00 PM	71239
Toluene	ND	0.047		mg/Kg	1	11/3/2022 6:25:00 PM	71239
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2022 6:25:00 PM	71239
Xylenes, Total	ND	0.094		mg/Kg	1	11/3/2022 6:25:00 PM	71239
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	11/3/2022 6:25:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-5

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 12:08:00 PM

**Lab ID:** 2211055-012

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	11/4/2022 9:38:22 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	19	14		mg/Kg	1	11/3/2022 4:48:53 PM	71242
Motor Oil Range Organics (MRO)	49	48		mg/Kg	1	11/3/2022 4:48:53 PM	71242
Surr: DNOP	86.0	21-129		%Rec	1	11/3/2022 4:48:53 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2022 6:45:00 PM	71239
Surr: BFB	92.7	37.7-212		%Rec	1	11/3/2022 6:45:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	11/3/2022 6:45:00 PM	71239
Toluene	ND	0.047		mg/Kg	1	11/3/2022 6:45:00 PM	71239
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2022 6:45:00 PM	71239
Xylenes, Total	ND	0.093		mg/Kg	1	11/3/2022 6:45:00 PM	71239
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	11/3/2022 6:45:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-6

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 12:10:00 PM

**Lab ID:** 2211055-013

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	100	60		mg/Kg	20	11/4/2022 9:50:46 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 7:08:25 PM	71242
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2022 7:08:25 PM	71242
Surr: DNOP	82.8	21-129		%Rec	1	11/3/2022 7:08:25 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2022 7:05:00 PM	71239
Surr: BFB	92.6	37.7-212		%Rec	1	11/3/2022 7:05:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/3/2022 7:05:00 PM	71239
Toluene	ND	0.047		mg/Kg	1	11/3/2022 7:05:00 PM	71239
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2022 7:05:00 PM	71239
Xylenes, Total	ND	0.094		mg/Kg	1	11/3/2022 7:05:00 PM	71239
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	11/3/2022 7:05:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-7

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 12:12:00 PM

**Lab ID:** 2211055-014

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	210	60		mg/Kg	20	11/4/2022 10:27:59 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 7:22:13 PM	71242
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2022 7:22:13 PM	71242
Surr: DNOP	80.4	21-129		%Rec	1	11/3/2022 7:22:13 PM	71242
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2022 7:24:00 PM	71239
Surr: BFB	88.4	37.7-212		%Rec	1	11/3/2022 7:24:00 PM	71239
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	11/3/2022 7:24:00 PM	71239
Toluene	ND	0.047		mg/Kg	1	11/3/2022 7:24:00 PM	71239
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2022 7:24:00 PM	71239
Xylenes, Total	ND	0.094		mg/Kg	1	11/3/2022 7:24:00 PM	71239
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	11/3/2022 7:24:00 PM	71239

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-8

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:20:00 PM

**Lab ID:** 2211055-015

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	360	60		mg/Kg	20	11/4/2022 10:40:23 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 8:02:20 PM	71243
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/3/2022 8:02:20 PM	71243
Surr: DNOP	72.1	21-129		%Rec	1	11/3/2022 8:02:20 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/3/2022 9:22:00 PM	71241
Surr: BFB	93.6	37.7-212		%Rec	1	11/3/2022 9:22:00 PM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	11/3/2022 9:22:00 PM	71241
Toluene	ND	0.050		mg/Kg	1	11/3/2022 9:22:00 PM	71241
Ethylbenzene	ND	0.050		mg/Kg	1	11/3/2022 9:22:00 PM	71241
Xylenes, Total	ND	0.099		mg/Kg	1	11/3/2022 9:22:00 PM	71241
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	11/3/2022 9:22:00 PM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		



**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-9

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:22:00 PM

**Lab ID:** 2211055-016

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	300	60		mg/Kg	20	11/4/2022 10:52:48 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 8:34:29 PM	71243
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2022 8:34:29 PM	71243
Surr: DNOP	90.4	21-129		%Rec	1	11/3/2022 8:34:29 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/3/2022 10:21:00 PM	71241
Surr: BFB	92.0	37.7-212		%Rec	1	11/3/2022 10:21:00 PM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/3/2022 10:21:00 PM	71241
Toluene	ND	0.048		mg/Kg	1	11/3/2022 10:21:00 PM	71241
Ethylbenzene	ND	0.048		mg/Kg	1	11/3/2022 10:21:00 PM	71241
Xylenes, Total	ND	0.096		mg/Kg	1	11/3/2022 10:21:00 PM	71241
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	11/3/2022 10:21:00 PM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-10

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:24:00 PM

**Lab ID:** 2211055-017

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	570	59		mg/Kg	20	11/4/2022 11:05:12 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 8:45:09 PM	71243
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2022 8:45:09 PM	71243
Surr: DNOP	87.6	21-129		%Rec	1	11/3/2022 8:45:09 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/3/2022 11:20:00 PM	71241
Surr: BFB	92.2	37.7-212		%Rec	1	11/3/2022 11:20:00 PM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/3/2022 11:20:00 PM	71241
Toluene	ND	0.048		mg/Kg	1	11/3/2022 11:20:00 PM	71241
Ethylbenzene	ND	0.048		mg/Kg	1	11/3/2022 11:20:00 PM	71241
Xylenes, Total	ND	0.097		mg/Kg	1	11/3/2022 11:20:00 PM	71241
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	11/3/2022 11:20:00 PM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-11

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:26:00 PM

**Lab ID:** 2211055-018

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	640	60		mg/Kg	20	11/4/2022 11:17:36 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 8:55:50 PM	71243
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2022 8:55:50 PM	71243
Surr: DNOP	96.2	21-129		%Rec	1	11/3/2022 8:55:50 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/3/2022 11:40:00 PM	71241
Surr: BFB	96.4	37.7-212		%Rec	1	11/3/2022 11:40:00 PM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	11/3/2022 11:40:00 PM	71241
Toluene	ND	0.046		mg/Kg	1	11/3/2022 11:40:00 PM	71241
Ethylbenzene	ND	0.046		mg/Kg	1	11/3/2022 11:40:00 PM	71241
Xylenes, Total	ND	0.093		mg/Kg	1	11/3/2022 11:40:00 PM	71241
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	11/3/2022 11:40:00 PM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-12

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:28:00 PM

**Lab ID:** 2211055-019

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	1100	60		mg/Kg	20	11/4/2022 11:30:00 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 9:06:29 PM	71243
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2022 9:06:29 PM	71243
Surr: DNOP	58.2	21-129		%Rec	1	11/3/2022 9:06:29 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2022	71241
Surr: BFB	87.1	37.7-212		%Rec	1	11/4/2022	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	11/4/2022	71241
Toluene	ND	0.049		mg/Kg	1	11/4/2022	71241
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2022	71241
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2022	71241
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	11/4/2022	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-13

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:30:00 PM

**Lab ID:** 2211055-020

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	380	61		mg/Kg	20	11/4/2022 11:42:25 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 9:17:07 PM	71243
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2022 9:17:07 PM	71243
Surr: DNOP	121	21-129		%Rec	1	11/3/2022 9:17:07 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2022 12:19:00 AM	71241
Surr: BFB	93.6	37.7-212		%Rec	1	11/4/2022 12:19:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2022 12:19:00 AM	71241
Toluene	ND	0.049		mg/Kg	1	11/4/2022 12:19:00 AM	71241
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2022 12:19:00 AM	71241
Xylenes, Total	ND	0.097		mg/Kg	1	11/4/2022 12:19:00 AM	71241
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	11/4/2022 12:19:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-14

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:32:00 PM

**Lab ID:** 2211055-021

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	120	60		mg/Kg	20	11/4/2022 11:54:49 PM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	23	14		mg/Kg	1	11/4/2022 10:31:47 AM	71243
Motor Oil Range Organics (MRO)	120	46		mg/Kg	1	11/4/2022 10:31:47 AM	71243
Surr: DNOP	45.6	21-129		%Rec	1	11/4/2022 10:31:47 AM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2022 12:39:00 AM	71241
Surr: BFB	94.8	37.7-212		%Rec	1	11/4/2022 12:39:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	11/4/2022 12:39:00 AM	71241
Toluene	ND	0.050		mg/Kg	1	11/4/2022 12:39:00 AM	71241
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2022 12:39:00 AM	71241
Xylenes, Total	ND	0.10		mg/Kg	1	11/4/2022 12:39:00 AM	71241
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	11/4/2022 12:39:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		



**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-15

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:34:00 PM

**Lab ID:** 2211055-022

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	350	60		mg/Kg	20	11/5/2022 12:07:13 AM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 9:48:51 PM	71243
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/3/2022 9:48:51 PM	71243
Surr: DNOP	128	21-129		%Rec	1	11/3/2022 9:48:51 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2022 12:59:00 AM	71241
Surr: BFB	90.0	37.7-212		%Rec	1	11/4/2022 12:59:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2022 12:59:00 AM	71241
Toluene	ND	0.048		mg/Kg	1	11/4/2022 12:59:00 AM	71241
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2022 12:59:00 AM	71241
Xylenes, Total	ND	0.095		mg/Kg	1	11/4/2022 12:59:00 AM	71241
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	11/4/2022 12:59:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-16

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:36:00 PM

**Lab ID:** 2211055-023

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	300	60		mg/Kg	20	11/5/2022 12:19:37 AM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 10:09:54 PM	71243
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2022 10:09:54 PM	71243
Surr: DNOP	95.8	21-129		%Rec	1	11/3/2022 10:09:54 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2022 1:18:00 AM	71241
Surr: BFB	95.9	37.7-212		%Rec	1	11/4/2022 1:18:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2022 1:18:00 AM	71241
Toluene	ND	0.048		mg/Kg	1	11/4/2022 1:18:00 AM	71241
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2022 1:18:00 AM	71241
Xylenes, Total	ND	0.097		mg/Kg	1	11/4/2022 1:18:00 AM	71241
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	11/4/2022 1:18:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-17

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:38:00 PM

**Lab ID:** 2211055-024

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	2400	150		mg/Kg	50	11/7/2022 10:26:17 AM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	16	14		mg/Kg	1	11/3/2022 10:20:28 PM	71243
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2022 10:20:28 PM	71243
Surr: DNOP	121	21-129		%Rec	1	11/3/2022 10:20:28 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2022 1:38:00 AM	71241
Surr: BFB	95.0	37.7-212		%Rec	1	11/4/2022 1:38:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2022 1:38:00 AM	71241
Toluene	ND	0.048		mg/Kg	1	11/4/2022 1:38:00 AM	71241
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2022 1:38:00 AM	71241
Xylenes, Total	ND	0.096		mg/Kg	1	11/4/2022 1:38:00 AM	71241
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	11/4/2022 1:38:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-18

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:40:00 PM

**Lab ID:** 2211055-025

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	440	60		mg/Kg	20	11/5/2022 1:09:14 AM	71311
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 10:31:04 PM	71243
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2022 10:31:04 PM	71243
Surr: DNOP	115	21-129		%Rec	1	11/3/2022 10:31:04 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2022 2:17:00 AM	71241
Surr: BFB	99.8	37.7-212		%Rec	1	11/4/2022 2:17:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	11/4/2022 2:17:00 AM	71241
Toluene	ND	0.047		mg/Kg	1	11/4/2022 2:17:00 AM	71241
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2022 2:17:00 AM	71241
Xylenes, Total	ND	0.094		mg/Kg	1	11/4/2022 2:17:00 AM	71241
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	11/4/2022 2:17:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-19

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:42:00 PM

**Lab ID:** 2211055-026

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	510	60		mg/Kg	20	11/7/2022 10:38:37 AM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 10:41:39 PM	71243
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/3/2022 10:41:39 PM	71243
Surr: DNOP	108	21-129		%Rec	1	11/3/2022 10:41:39 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2022 2:37:00 AM	71241
Surr: BFB	92.0	37.7-212		%Rec	1	11/4/2022 2:37:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2022 2:37:00 AM	71241
Toluene	ND	0.049		mg/Kg	1	11/4/2022 2:37:00 AM	71241
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2022 2:37:00 AM	71241
Xylenes, Total	ND	0.098		mg/Kg	1	11/4/2022 2:37:00 AM	71241
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	11/4/2022 2:37:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-20

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:46:00 PM

**Lab ID:** 2211055-027

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	1600	60		mg/Kg	20	11/7/2022 11:15:40 AM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 10:52:14 PM	71243
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2022 10:52:14 PM	71243
Surr: DNOP	103	21-129		%Rec	1	11/3/2022 10:52:14 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2022 2:57:00 AM	71241
Surr: BFB	92.0	37.7-212		%Rec	1	11/4/2022 2:57:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2022 2:57:00 AM	71241
Toluene	ND	0.049		mg/Kg	1	11/4/2022 2:57:00 AM	71241
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2022 2:57:00 AM	71241
Xylenes, Total	ND	0.098		mg/Kg	1	11/4/2022 2:57:00 AM	71241
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	11/4/2022 2:57:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-21

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:47:00 PM

**Lab ID:** 2211055-028

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	1800	59		mg/Kg	20	11/7/2022 12:17:22 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 11:02:50 PM	71243
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2022 11:02:50 PM	71243
Surr: DNOP	115	21-129		%Rec	1	11/3/2022 11:02:50 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2022 3:17:00 AM	71241
Surr: BFB	90.5	37.7-212		%Rec	1	11/4/2022 3:17:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	11/4/2022 3:17:00 AM	71241
Toluene	ND	0.047		mg/Kg	1	11/4/2022 3:17:00 AM	71241
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2022 3:17:00 AM	71241
Xylenes, Total	ND	0.094		mg/Kg	1	11/4/2022 3:17:00 AM	71241
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	11/4/2022 3:17:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		



**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-22

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:50:00 PM

**Lab ID:** 2211055-029

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	450	61		mg/Kg	20	11/7/2022 12:29:43 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 11:13:21 PM	71243
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2022 11:13:21 PM	71243
Surr: DNOP	117	21-129		%Rec	1	11/3/2022 11:13:21 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2022 3:36:00 AM	71241
Surr: BFB	91.1	37.7-212		%Rec	1	11/4/2022 3:36:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2022 3:36:00 AM	71241
Toluene	ND	0.047		mg/Kg	1	11/4/2022 3:36:00 AM	71241
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2022 3:36:00 AM	71241
Xylenes, Total	ND	0.094		mg/Kg	1	11/4/2022 3:36:00 AM	71241
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	11/4/2022 3:36:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-23

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:52:00 PM

**Lab ID:** 2211055-030

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	1600	61		mg/Kg	20	11/7/2022 12:42:04 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 11:23:59 PM	71243
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2022 11:23:59 PM	71243
Surr: DNOP	116	21-129		%Rec	1	11/3/2022 11:23:59 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2022 3:56:00 AM	71241
Surr: BFB	89.6	37.7-212		%Rec	1	11/4/2022 3:56:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2022 3:56:00 AM	71241
Toluene	ND	0.048		mg/Kg	1	11/4/2022 3:56:00 AM	71241
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2022 3:56:00 AM	71241
Xylenes, Total	ND	0.097		mg/Kg	1	11/4/2022 3:56:00 AM	71241
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	11/4/2022 3:56:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** B-24

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 10:21:00 AM

**Lab ID:** 2211055-031

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	2300	150		mg/Kg	50	11/8/2022 10:46:56 AM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	11/3/2022 11:34:34 PM	71243
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/3/2022 11:34:34 PM	71243
Surr: DNOP	105	21-129		%Rec	1	11/3/2022 11:34:34 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2022 4:16:00 AM	71241
Surr: BFB	89.4	37.7-212		%Rec	1	11/4/2022 4:16:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	11/4/2022 4:16:00 AM	71241
Toluene	ND	0.049		mg/Kg	1	11/4/2022 4:16:00 AM	71241
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2022 4:16:00 AM	71241
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2022 4:16:00 AM	71241
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	11/4/2022 4:16:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** W-1

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 10:23:00 AM

**Lab ID:** 2211055-032

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	220	60		mg/Kg	20	11/7/2022 1:06:46 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 11:45:07 PM	71243
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2022 11:45:07 PM	71243
Surr: DNOP	99.2	21-129		%Rec	1	11/3/2022 11:45:07 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2022 4:35:00 AM	71241
Surr: BFB	92.0	37.7-212		%Rec	1	11/4/2022 4:35:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	11/4/2022 4:35:00 AM	71241
Toluene	ND	0.050		mg/Kg	1	11/4/2022 4:35:00 AM	71241
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2022 4:35:00 AM	71241
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2022 4:35:00 AM	71241
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	11/4/2022 4:35:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** W-2

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 10:25:00 AM

**Lab ID:** 2211055-033

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	230	60		mg/Kg	20	11/7/2022 1:19:05 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 11:55:38 PM	71243
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2022 11:55:38 PM	71243
Surr: DNOP	79.5	21-129		%Rec	1	11/3/2022 11:55:38 PM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2022 4:55:00 AM	71241
Surr: BFB	92.7	37.7-212		%Rec	1	11/4/2022 4:55:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2022 4:55:00 AM	71241
Toluene	ND	0.048		mg/Kg	1	11/4/2022 4:55:00 AM	71241
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2022 4:55:00 AM	71241
Xylenes, Total	ND	0.096		mg/Kg	1	11/4/2022 4:55:00 AM	71241
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	11/4/2022 4:55:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** W-3

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 10:27:00 AM

**Lab ID:** 2211055-034

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	240	60		mg/Kg	20	11/7/2022 1:31:26 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/4/2022 12:06:08 AM	71243
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/4/2022 12:06:08 AM	71243
Surr: DNOP	84.6	21-129		%Rec	1	11/4/2022 12:06:08 AM	71243
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2022 5:15:00 AM	71241
Surr: BFB	91.5	37.7-212		%Rec	1	11/4/2022 5:15:00 AM	71241
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2022 5:15:00 AM	71241
Toluene	ND	0.048		mg/Kg	1	11/4/2022 5:15:00 AM	71241
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2022 5:15:00 AM	71241
Xylenes, Total	ND	0.097		mg/Kg	1	11/4/2022 5:15:00 AM	71241
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	11/4/2022 5:15:00 AM	71241

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** W-4

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 10:27:00 AM

**Lab ID:** 2211055-035

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	88	60		mg/Kg	20	11/7/2022 1:43:48 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 5:31:35 PM	71251
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2022 5:31:35 PM	71251
Surr: DNOP	86.4	21-129		%Rec	1	11/3/2022 5:31:35 PM	71251
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/3/2022 5:18:40 PM	71245
Surr: BFB	88.8	37.7-212		%Rec	1	11/3/2022 5:18:40 PM	71245
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/3/2022 5:18:40 PM	71245
Toluene	ND	0.048		mg/Kg	1	11/3/2022 5:18:40 PM	71245
Ethylbenzene	ND	0.048		mg/Kg	1	11/3/2022 5:18:40 PM	71245
Xylenes, Total	ND	0.095		mg/Kg	1	11/3/2022 5:18:40 PM	71245
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	11/3/2022 5:18:40 PM	71245

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		



**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** W-5

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 1:56:00 PM

**Lab ID:** 2211055-036

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	11/7/2022 1:56:08 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 6:03:44 PM	71251
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/3/2022 6:03:44 PM	71251
Surr: DNOP	83.6	21-129		%Rec	1	11/3/2022 6:03:44 PM	71251
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2022 6:28:54 PM	71245
Surr: BFB	89.3	37.7-212		%Rec	1	11/3/2022 6:28:54 PM	71245
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	11/3/2022 6:28:54 PM	71245
Toluene	ND	0.047		mg/Kg	1	11/3/2022 6:28:54 PM	71245
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2022 6:28:54 PM	71245
Xylenes, Total	ND	0.094		mg/Kg	1	11/3/2022 6:28:54 PM	71245
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	11/3/2022 6:28:54 PM	71245

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** W-6

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 2:02:00 PM

**Lab ID:** 2211055-037

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	330	60		mg/Kg	20	11/7/2022 2:08:29 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 6:14:27 PM	71251
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2022 6:14:27 PM	71251
Surr: DNOP	78.8	21-129		%Rec	1	11/3/2022 6:14:27 PM	71251
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2022 7:39:36 PM	71245
Surr: BFB	87.3	37.7-212		%Rec	1	11/3/2022 7:39:36 PM	71245
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	11/3/2022 7:39:36 PM	71245
Toluene	ND	0.047		mg/Kg	1	11/3/2022 7:39:36 PM	71245
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2022 7:39:36 PM	71245
Xylenes, Total	ND	0.094		mg/Kg	1	11/3/2022 7:39:36 PM	71245
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	11/3/2022 7:39:36 PM	71245

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** W-7

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 2:04:00 PM

**Lab ID:** 2211055-038

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	430	60		mg/Kg	20	11/7/2022 2:45:30 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 6:25:12 PM	71251
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2022 6:25:12 PM	71251
Surr: DNOP	96.5	21-129		%Rec	1	11/3/2022 6:25:12 PM	71251
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2022 8:03:11 PM	71245
Surr: BFB	86.4	37.7-212		%Rec	1	11/3/2022 8:03:11 PM	71245
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/3/2022 8:03:11 PM	71245
Toluene	ND	0.047		mg/Kg	1	11/3/2022 8:03:11 PM	71245
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2022 8:03:11 PM	71245
Xylenes, Total	ND	0.095		mg/Kg	1	11/3/2022 8:03:11 PM	71245
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	11/3/2022 8:03:11 PM	71245

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** W-8

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 2:06:00 PM

**Lab ID:** 2211055-039

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	71	59		mg/Kg	20	11/7/2022 2:57:51 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 6:36:06 PM	71251
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/3/2022 6:36:06 PM	71251
Surr: DNOP	71.7	21-129		%Rec	1	11/3/2022 6:36:06 PM	71251
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2022 8:26:35 PM	71245
Surr: BFB	89.2	37.7-212		%Rec	1	11/3/2022 8:26:35 PM	71245
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	11/3/2022 8:26:35 PM	71245
Toluene	ND	0.047		mg/Kg	1	11/3/2022 8:26:35 PM	71245
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2022 8:26:35 PM	71245
Xylenes, Total	ND	0.094		mg/Kg	1	11/3/2022 8:26:35 PM	71245
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	11/3/2022 8:26:35 PM	71245

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** W-9

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 2:05:00 PM

**Lab ID:** 2211055-040

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	350	60		mg/Kg	20	11/7/2022 3:10:12 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 6:46:58 PM	71251
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2022 6:46:58 PM	71251
Surr: DNOP	79.1	21-129		%Rec	1	11/3/2022 6:46:58 PM	71251
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/3/2022 8:50:03 PM	71245
Surr: BFB	90.4	37.7-212		%Rec	1	11/3/2022 8:50:03 PM	71245
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/3/2022 8:50:03 PM	71245
Toluene	ND	0.048		mg/Kg	1	11/3/2022 8:50:03 PM	71245
Ethylbenzene	ND	0.048		mg/Kg	1	11/3/2022 8:50:03 PM	71245
Xylenes, Total	ND	0.097		mg/Kg	1	11/3/2022 8:50:03 PM	71245
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	11/3/2022 8:50:03 PM	71245

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** W-10

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 2:10:00 PM

**Lab ID:** 2211055-041

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	11/7/2022 3:22:33 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/3/2022 6:57:49 PM	71251
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/3/2022 6:57:49 PM	71251
Surr: DNOP	59.2	21-129		%Rec	1	11/3/2022 6:57:49 PM	71251
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/3/2022 9:13:38 PM	71245
Surr: BFB	87.2	37.7-212		%Rec	1	11/3/2022 9:13:38 PM	71245
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/3/2022 9:13:38 PM	71245
Toluene	ND	0.048		mg/Kg	1	11/3/2022 9:13:38 PM	71245
Ethylbenzene	ND	0.048		mg/Kg	1	11/3/2022 9:13:38 PM	71245
Xylenes, Total	ND	0.096		mg/Kg	1	11/3/2022 9:13:38 PM	71245
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	11/3/2022 9:13:38 PM	71245

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** W-11

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 2:12:00 PM

**Lab ID:** 2211055-042

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	360	60		mg/Kg	20	11/7/2022 3:34:53 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 7:08:39 PM	71251
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2022 7:08:39 PM	71251
Surr: DNOP	70.7	21-129		%Rec	1	11/3/2022 7:08:39 PM	71251
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/3/2022 9:37:13 PM	71245
Surr: BFB	87.1	37.7-212		%Rec	1	11/3/2022 9:37:13 PM	71245
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/3/2022 9:37:13 PM	71245
Toluene	ND	0.048		mg/Kg	1	11/3/2022 9:37:13 PM	71245
Ethylbenzene	ND	0.048		mg/Kg	1	11/3/2022 9:37:13 PM	71245
Xylenes, Total	ND	0.095		mg/Kg	1	11/3/2022 9:37:13 PM	71245
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	11/3/2022 9:37:13 PM	71245

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		



**Analytical Report**

Lab Order **2211055**

Date Reported: **11/11/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** W-12

**Project:** Copelan Federal 1

**Collection Date:** 10/31/2022 2:12:00 PM

**Lab ID:** 2211055-043

**Matrix:** SOIL

**Received Date:** 11/2/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	11/7/2022 3:47:14 PM	71324
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/3/2022 7:19:28 PM	71251
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/3/2022 7:19:28 PM	71251
Surr: DNOP	72.3	21-129		%Rec	1	11/3/2022 7:19:28 PM	71251
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/3/2022 10:00:35 PM	71245
Surr: BFB	90.8	37.7-212		%Rec	1	11/3/2022 10:00:35 PM	71245
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/3/2022 10:00:35 PM	71245
Toluene	ND	0.047		mg/Kg	1	11/3/2022 10:00:35 PM	71245
Ethylbenzene	ND	0.047		mg/Kg	1	11/3/2022 10:00:35 PM	71245
Xylenes, Total	ND	0.094		mg/Kg	1	11/3/2022 10:00:35 PM	71245
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	11/3/2022 10:00:35 PM	71245

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2211055

11-Nov-22

**Client:** EOG  
**Project:** Copelan Federal 1

Sample ID: <b>MB-71297</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>71297</b>	RunNo: <b>92365</b>								
Prep Date: <b>11/4/2022</b>	Analysis Date: <b>11/4/2022</b>	SeqNo: <b>3319379</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-71297</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>71297</b>	RunNo: <b>92365</b>								
Prep Date: <b>11/4/2022</b>	Analysis Date: <b>11/4/2022</b>	SeqNo: <b>3319380</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

Sample ID: <b>MB-71311</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>71311</b>	RunNo: <b>92365</b>								
Prep Date: <b>11/4/2022</b>	Analysis Date: <b>11/4/2022</b>	SeqNo: <b>3319409</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-71311</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>71311</b>	RunNo: <b>92365</b>								
Prep Date: <b>11/4/2022</b>	Analysis Date: <b>11/4/2022</b>	SeqNo: <b>3319410</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

Sample ID: <b>MB-71324</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>71324</b>	RunNo: <b>92399</b>								
Prep Date: <b>11/7/2022</b>	Analysis Date: <b>11/7/2022</b>	SeqNo: <b>3320634</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-71324</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>71324</b>	RunNo: <b>92399</b>								
Prep Date: <b>11/7/2022</b>	Analysis Date: <b>11/7/2022</b>	SeqNo: <b>3320635</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.7	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/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#: 2211055

11-Nov-22

**Client:** EOG  
**Project:** Copelan Federal 1

Sample ID: <b>MB-71251</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>71251</b>	RunNo: <b>92301</b>								
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>	SeqNo: <b>3316357</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	21	129			

Sample ID: <b>LCS-71243</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>71243</b>	RunNo: <b>92301</b>								
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>	SeqNo: <b>3316611</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	70	15	50.00	0	140	64.4	127			S
Surr: DNOP	6.5		5.000		130	21	129			S

Sample ID: <b>LCS-71251</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>71251</b>	RunNo: <b>92301</b>								
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>	SeqNo: <b>3316612</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	15	50.00	0	103	64.4	127			
Surr: DNOP	5.5		5.000		109	21	129			

Sample ID: <b>MB-71243</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>71243</b>	RunNo: <b>92301</b>								
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>	SeqNo: <b>3316613</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		116	21	129			

Sample ID: <b>MB-71242</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>71242</b>	RunNo: <b>92311</b>								
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>	SeqNo: <b>3317016</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.5	21	129			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/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#: 2211055

11-Nov-22

**Client:** EOG  
**Project:** Copelan Federal 1

Sample ID: <b>LCS-71242</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>71242</b>		RunNo: <b>92311</b>							
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>		SeqNo: <b>3317017</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.9	64.4	127			
Surr: DNOP	4.9		5.000		97.1	21	129			

Sample ID: <b>LCS-71243</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>71243</b>		RunNo: <b>92323</b>							
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/4/2022</b>		SeqNo: <b>3317387</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	50.00	0	107	64.4	127			
Surr: DNOP	5.7		5.000		114	21	129			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/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#: 2211055

11-Nov-22

**Client:** EOG  
**Project:** Copelan Federal 1

Sample ID: <b>mb-71245</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>71245</b>		RunNo: <b>92307</b>							
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>		SeqNo: <b>3316454</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		87.7	37.7	212			

Sample ID: <b>lcs-71245</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>71245</b>		RunNo: <b>92307</b>							
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>		SeqNo: <b>3316455</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.4	72.3	137			
Surr: BFB	1800		1000		184	37.7	212			

Sample ID: <b>lcs-71239</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>71239</b>		RunNo: <b>92320</b>							
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>		SeqNo: <b>3317183</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.4	72.3	137			
Surr: BFB	2000		1000		200	37.7	212			

Sample ID: <b>mb-71239</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>71239</b>		RunNo: <b>92320</b>							
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>		SeqNo: <b>3317186</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.7	37.7	212			

Sample ID: <b>lcs-71241</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>71241</b>		RunNo: <b>92320</b>							
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>		SeqNo: <b>3317235</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.8	72.3	137			
Surr: BFB	2000		1000		203	37.7	212			

Sample ID: <b>mb-71241</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>71241</b>		RunNo: <b>92320</b>							
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>		SeqNo: <b>3317236</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/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#: 2211055

11-Nov-22

**Client:** EOG  
**Project:** Copelan Federal 1

Sample ID: <b>mb-71241</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>71241</b>	RunNo: <b>92320</b>								
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>	SeqNo: <b>3317236</b>			Units: <b>mg/Kg</b>					
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		94.2	37.7	212			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/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#: 2211055

11-Nov-22

**Client:** EOG  
**Project:** Copelan Federal 1

Sample ID: <b>mb-71245</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>71245</b>	RunNo: <b>92307</b>								
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>	SeqNo: <b>3316496</b>	Units: <b>mg/Kg</b>							
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	0.92		1.000		92.3	70	130			

Sample ID: <b>LCS-71245</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>71245</b>	RunNo: <b>92307</b>								
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>	SeqNo: <b>3316502</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.8	80	120			
Toluene	0.99	0.050	1.000	0	99.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.1	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.7	70	130			

Sample ID: <b>lcs-71239</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>71239</b>	RunNo: <b>92320</b>								
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>	SeqNo: <b>3317311</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	80	120			
Toluene	0.96	0.050	1.000	0	95.8	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.2	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	70	130			

Sample ID: <b>mb-71239</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>71239</b>	RunNo: <b>92320</b>								
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>	SeqNo: <b>3317312</b>	Units: <b>mg/Kg</b>							
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	0.91		1.000		91.5	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/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#: 2211055

11-Nov-22

**Client:** EOG  
**Project:** Copelan Federal 1

Sample ID: <b>ics-71241</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>71241</b>		RunNo: <b>92320</b>							
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>		SeqNo: <b>3317335</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.3	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.8	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.5	70	130			

Sample ID: <b>mb-71241</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>71241</b>		RunNo: <b>92320</b>							
Prep Date: <b>11/2/2022</b>	Analysis Date: <b>11/3/2022</b>		SeqNo: <b>3317336</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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: **2211055** RcptNo: **1**

Received By: **Tracy Casarrubias** 11/2/2022 7:20:00 AM  
Completed By: **Cheyenne Cason** 11/2/2022 8:16:58 AM *CC*  
Reviewed By: *TME* 11/2/22

### 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? Yes  No   
(Note discrepancies on chain of custody)
- 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? Yes  No   
(If no, notify customer for authorization.)

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: *JW 11/2/22*

### 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	-0.3	Good	Not Present			
2	4.6	Good	Not Present			
3	4.4	Good	Not Present			

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

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

**Analysis Request**

Turn-Around Time: Standard  Rush 5 day TAT  
 Project Name: Copelan Federal #11

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy  
 On Ice:  Yes  No

# of Coolers: 3  
 Cooler Temp (including CF): See Checklist

Container Type and # 1x402JW ICE Preservative Type JCE HEAL No. 2211055

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

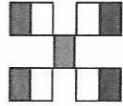
QA/QC Package:  Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  NELAC  Other  
 EDD (Type) Excel

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10/3/21	1007	Soil	NB-1	1x402JW ICE	JCE	2211055	X	X	X
	1009		NB-2						
	1011		NB-3						
	1013		NB-4						
	1015		NB-5						
	1017		NB-6						
	1019		NB-7						
	1200		B-1						
	1202		B-2						
	1204		B-3						
	1206		B-4						
	1208		B-5						

Received by: W. Kennedy Date: 11/22/22 Time: 11:15  
 Relinquished by: W. Kennedy Date: 11/22/22 Time: 7:20

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 report.



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time:  
 Standard  Rush 5-day VAF  
 Project Name:  
Copelan Federal #1

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy  
 On Ice:  Yes  No  
 # of Coolers: 3  
 Cooler Temp (including CP): See checklist

Container Type and #  
1 x 4020T ICE  
 Preservative Type  
ICE  
 HEAL No.  
2211055

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
10/31	1210	Soil	B-6			
	1212		B-7			
	1320		B-8			
	1322		B-9			
	1324		B-10			
	1326		B-11			
	1328		B-12			
	1330		B-13			
	1332		B-14			
	1334		B-15			
	1336		B-16			
	1338		B-17			

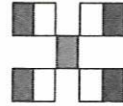
Received by: W. Kennedy Date: 11/12/22 Time: 1115  
 Relinquished by: W. Kennedy Date: 11/12/22 Time: 7:20  
 Received by: Sam Date: 11/2/22 Time: 7:20

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 report.



Received by Will H-289-08133-003 Record



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: Standard  Rush 5-day TAT  
Project Name: Copelan Federal #1

Project # 5375

Project Manager: W. Klerdorf

Sampler: W. Kennedy  
On Ice:  Yes  No

# of Coolers: 3

Cooler Temp (including cr): See Checklist

Container Type and # | Preservative Type | HEAL No.  
1 x 40 LTR JFE | JFE | 2211055

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

Accreditation:  Az Compliance

NELAC  Other

EDD (Type) Excel

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

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

Ranger: PO Box 201179, Austin TX 78720

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
10/31/20	1340	Soil	B-13	1 x 40 LTR	JFE	025
	1342		B-14			026
	1344		B-20			027
	1346		B-21			028
	1348		B-22			029
	1350		B-23			030
	1352		B-24			031
	1021		W-1			032
	1023		W-2			033
	1025		W-3			034
	1027		W-4			035
	1354		W-5			036

Date: 11/1/22 Time: 1115 Relinquished by: W. Kennedy Received by: W. Kennedy Date: 11/1/22 Time: 1115

Date: 11/1/22 Time: 1400 Relinquished by: W. Kennedy Received by: W. Kennedy Date: 11/2/22 Time: 7:20

BTEX (8021) X X X TPH:8015D(GRO / DRO / MRO) X X X Chloride (EPA 300)       

**Analysis Request**

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 report.

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

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

Turn-Around Time:  
 Standard  Rush 5-day TAT  
 Project Name:  
 Copelan Federal #1  
 Project #: 5375

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

Project Manager: W. Kierdorf  
 Sampler: *W. Kierdorf*  
 On Ice:  Yes  No  
 # of Coolers: 3  
 Cooler Temp (including CP): *500 Chilled*

QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type) Excel

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
10/3/23	1356	Soil	w-6	1x402 Jar	ICE	2211055
	1422		w-7			037
	1404		w-8			038
	1406		w-9			039
	1408		w-10			040
	1410		w-11			041
	1412		w-12			042
						043

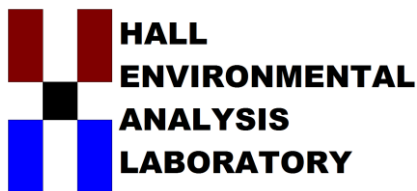
BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
X	Y	Y
Y	Y	Y
Y	Y	Y
Y	Y	Y
Y	Y	Y
Y	Y	Y
Y	Y	Y

Analysis Request

Received by: *W. Kierdorf* Date: 11/22/15 Time: 1115  
 Relinquished by: *W. Kierdorf*  
 Received by: *W. Kierdorf* Date: 11/22/20 Time: 2020  
 Relinquished by: *W. Kierdorf*

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 report.



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

November 22, 2022

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

RE: Copelan Federal 1

OrderNo.: 2211A29

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/17/2022 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order 2211A29

Date Reported: 11/22/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** NB-8

**Project:** Copelan Federal 1

**Collection Date:** 11/14/2022 3:30:00 PM

**Lab ID:** 2211A29-001

**Matrix:** MEOH (SOIL)

**Received Date:** 11/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JTT</b>
Chloride	690	60		mg/Kg	20	11/18/2022 2:25:25 AM	71580
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/17/2022 12:00:38 PM	71561
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/17/2022 12:00:38 PM	71561
Surr: DNOP	91.8	21-129		%Rec	1	11/17/2022 12:00:38 PM	71561
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	11/17/2022 1:56:34 PM	B92672
Surr: BFB	90.6	37.7-212		%Rec	1	11/17/2022 1:56:34 PM	B92672
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.020		mg/Kg	1	11/17/2022 1:56:34 PM	D92672
Toluene	ND	0.041		mg/Kg	1	11/17/2022 1:56:34 PM	D92672
Ethylbenzene	ND	0.041		mg/Kg	1	11/17/2022 1:56:34 PM	D92672
Xylenes, Total	ND	0.081		mg/Kg	1	11/17/2022 1:56:34 PM	D92672
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	11/17/2022 1:56:34 PM	D92672

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211A29

22-Nov-22

**Client:** EOG  
**Project:** Copelan Federal 1

Sample ID: <b>MB-71580</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>71580</b>	RunNo: <b>92686</b>								
Prep Date: <b>11/17/2022</b>	Analysis Date: <b>11/17/2022</b>	SeqNo: <b>3334966</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-71580</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>71580</b>	RunNo: <b>92686</b>								
Prep Date: <b>11/17/2022</b>	Analysis Date: <b>11/17/2022</b>	SeqNo: <b>3334967</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Sample ID: <b>LCS-71580</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>71580</b>	RunNo: <b>92726</b>								
Prep Date: <b>11/17/2022</b>	Analysis Date: <b>11/18/2022</b>	SeqNo: <b>3337110</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/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#: 2211A29

22-Nov-22

**Client:** EOG  
**Project:** Copelan Federal 1

Sample ID: <b>LCS-71561</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>71561</b>		RunNo: <b>92653</b>							
Prep Date: <b>11/17/2022</b>	Analysis Date: <b>11/17/2022</b>		SeqNo: <b>3333143</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.4	64.4	127			
Surr: DNOP	5.0		5.000		99.5	21	129			

Sample ID: <b>MB-71561</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>71561</b>		RunNo: <b>92653</b>							
Prep Date: <b>11/17/2022</b>	Analysis Date: <b>11/17/2022</b>		SeqNo: <b>3333145</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.1	21	129			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/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#: 2211A29

22-Nov-22

**Client:** EOG  
**Project:** Copelan Federal 1

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>B92672</b>		RunNo: <b>92672</b>							
Prep Date:	Analysis Date: <b>11/17/2022</b>		SeqNo: <b>3333776</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.7	37.7	212			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>B92672</b>		RunNo: <b>92672</b>							
Prep Date:	Analysis Date: <b>11/17/2022</b>		SeqNo: <b>3333777</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.3	72.3	137			
Surr: BFB	1900		1000		190	37.7	212			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/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#: 2211A29

22-Nov-22

**Client:** EOG  
**Project:** Copelan Federal 1

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>D92672</b>	RunNo: <b>92672</b>								
Prep Date:	Analysis Date: <b>11/17/2022</b>	SeqNo: <b>3333824</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.3	70	130			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>D92672</b>	RunNo: <b>92672</b>								
Prep Date:	Analysis Date: <b>11/17/2022</b>	SeqNo: <b>3333825</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.3	80	120			
Toluene	0.96	0.050	1.000	0	96.0	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.8	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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 Resources      Work Order Number: 2211A29      RcptNo: 1

Received By: Tracy Casarrubias      11/17/2022 7:10:00 AM

Completed By: Tracy Casarrubias      11/17/2022 7:27:35 AM

Reviewed By: *See 11/17/22*

### 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: *JM 11/17/22*

### Special Handling (if applicable)

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

Person Notified: _____	Date: _____
By Whom: _____	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	0.4	Good	Yes			

1 UNIT - AUTOMATIC

Received by: QCD: 11/28/2022 9:53:55 AM  
 Chain-of-Custody Record



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: EOG-Artesia / Ranger Env.  
 Standard  Rush 24 hr

Project Name:  
 Copelan Federal #1

Project #: 5375

Project Manager: W. Kierdorf

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

Accreditation:  
 Az Compliance  
 NELAC  Other

EDD (Type) Excel

Sampler: F. Martinez  
 On Ice:  Yes  No

# of Coolers: 1  
 Cooler Temp (including CF): 0.4-0 = 0.4°C

Container Type and # 2x 4oz jar Preservative Type ICE HEAL No. 2211A2ca  
 001

Date	Time	Matrix	Sample Name
11-19-22	1530	soil	NB-8

BTEX (8021) X

TPH:8015D(GRO / DRO / MRO) X

Chloride (EPA 300) X

**Analysis Request**

Relinquished by: F. Martinez Date: 11-19-22 Time: 09:53  
 Relinquished by: William Date: 11/17/22 Time: 19:00

Received by: William Date: 11/17/22 Time: 7:10  
 Received by: William Date: 11/17/22 Time: 7:10

Via: can

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 report.

# ATTACHMENT 3 – NMOCD CORRESPONDENCE

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>  
**Sent:** Tuesday, October 25, 2022 11:46 AM  
**To:** Tina Huerta <[Tina\\_Huerta@eogresources.com](mailto:Tina_Huerta@eogresources.com)>  
**Subject:** The Oil Conservation Division (OCD) has approved the application, Application ID: 118037

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

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#) nAPP2208337232, with the following conditions:

- **The Remediation Plan is Conditionally Approved.** All off pad areas or pad areas considered “land no longer in use” must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. A closure report will need to be completed and uploaded within 90 days.

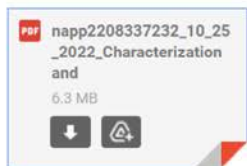
The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

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

Thank you,  
 Robert Hamlet  
 575-748-1283  
[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)

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

One attachment • Scanned by Gmail ⓘ





## Subject: Copelan Federal 1 (nAPP2208337232) Sampling Notification



**Tina Huerta** <Tina\_Huerta@eogresources.com>

Thu, Oct 27, 9:43 AM (19 hours ago)

to ocd.enviro@emnrd.nm.gov, Alan & Cheryl, Austin Weyant, blm\_nm\_cfo\_spill@blm.gov, Andrea Felix, Katie Jamison, Michael Yemm, Terrence Gant ▾

You are viewing an attached message. Rangerenv.com Mail can't verify the authenticity of attached messages.



Good Morning,

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

Copelan Federal 1  
N-5-19S-25E  
Eddy County, NM  
nAPP2208337232

Sampling will begin at 10:00 a.m. on Monday, October 31, 2022.

Thank you,

*Tina Huerta*  
*Regulatory Specialist*  
*Direct: 575.748.4168*  
*Cell: 575.703.3121*  
*Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)*



**Artesia Division**

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**From:** Tina Huerta <[Tina\\_Huerta@eogresources.com](mailto:Tina_Huerta@eogresources.com)>  
**Sent:** Thursday, November 10, 2022 9:25 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrn.nm.gov](mailto:OCD.Enviro@emnrn.nm.gov)>; Alan & Cheryl <[ahowell@pvtm.net](mailto:ahowell@pvtm.net)>; Austin Weyant <[austin@atkinseng.com](mailto:austin@atkinseng.com)>; [bim\\_nm\\_ofo\\_spill@bim.gov](mailto:bim_nm_ofo_spill@bim.gov)  
**Cc:** Andrea Felix <[Andrea\\_Felix@eogresources.com](mailto:Andrea_Felix@eogresources.com)>; Katie Jamison <[Katie\\_Jamison@eogresources.com](mailto:Katie_Jamison@eogresources.com)>; Michael Yemm <[Michael\\_Yemm@eogresources.com](mailto:Michael_Yemm@eogresources.com)>; Terrence Gant <[Terry\\_Gant@eogresources.com](mailto:Terry_Gant@eogresources.com)>  
**Subject:** [EXTERNAL] Copelan Federal 1 (nAPP2208337232) Sampling Notification

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

Good Morning,

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

Copelan Federal 1  
N-5-19S-25E  
Eddy County, NM  
nAPP2208337232

Sampling will begin at 3:00 p.m. on Monday, November 14, 2022.

Thank you.

Tina Huerta  
Regulatory Specialist  
Direct: 575.748.4168  
Cell: 575.703.3121  
Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)



**Artesia Division**

**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 161521

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 161521
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2208337232 COPELAN FEDERAL #1, thank you. This closure is approved.	4/24/2023