



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

March 30, 2022

NMOCD
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Ross EG Federal Battery
30-015-25903
D-20-19S-25E
Eddy County, New Mexico
2RP-4354 & 2RP-4509
NAB1734036870 & NAB1723536168

Mr. Billings,

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site. The plan is being submitted accompanying the C-141 Closure on the most recent form.

The original Remediation Plan was submitted through the New Mexico Tech Project, however with no formal response received and the conclusion of that project, EOG Resources, Inc. hereby submits the Closure Report for above referenced site after completion of remedial activities.

Included with this Closure Report request is the Remediation Plan submitted for the site, both Characterization Plans submitted for the separate releases, the NMOCD Approval Emails for the 2 Characterization Plans, and the BLM Approval Email for the Characterization Plan.

If you have any questions, feel free to call me at (575) 748-1471.

Respectfully,

Chase Settle

Chase Settle
Rep Safety & Environmental Sr.
EOG Resources, Inc.

EOG Resources, Inc.
Ross EG Federal Battery
Closure Report
D-20-19S-25E
Eddy County, New Mexico
March 30, 2022
2RP-4354 & 2RP-4509
NAB1723536168 & NAB1734036870

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Appendix A

C-141 (Updated Form) & Closure Report

NM OIL CONSERVATION

ARTESIA DISTRICT

AUG 22 2017

Form C-141
Revised April 3, 2017

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

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

RECEIVED to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company EOG Y Resources, Inc. 25575		Contact Chase Settle
Address 104 S. 4 th Street Artesia NM 88210		Telephone No. 575-748-1471
Facility Name Ross EG Federal #3 Battery		Facility Type Well
Surface Owner Private	Mineral Owner Federal	API No. 30-015-25903

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	20	19S	25E	660	North	660	West	Eddy

Latitude 32.6519089 Longitude -104.5134125 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 35 B/PW	Volume Recovered 30 B/PW
Source of Release Transfer line	Date and Hour of Occurrence 08/08/2017; 6:58 AM	Date and Hour of Discovery 08/08/17; 6:58 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher, Crystal Weaver, Shelly Tucker	
By Whom? Robert Asher	Date and Hour August 8, 2017; 11:00 AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.* N/A

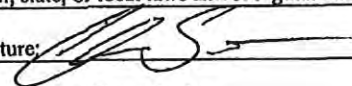
Describe Cause of Problem and Remedial Action Taken.*

There was a failure of an underground produced water transfer line, which led to the release of produced water. A vacuum truck was called to recover standing fluid and a backhoe was dispatched to excavate impacted soils.

Describe Area Affected and Cleanup Action Taken.*

The impacted area was approximately 255 feet by 15 feet within the primary berm of the battery and 65 feet by 20 feet outside of the primary berm, but within the secondary berm, at the northeast corner. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. Depth to Ground Water: >100' (300', Section 20, T19S, R25E, per NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION Signed By <u>Mike Bratcher</u>	
Printed Name: Chase Settle	Approved by Environmental Specialist:	
Title: Rep Safety & Environmental II	Approval Date: <u>8/22/17</u>	Expiration Date: <u>N/A</u>
E-mail Address: chase.settle@eogresources.com	Conditions of Approval: <u>See attached</u>	Attached ☐ <u>APP-4354</u>
Date: August 21, 2017	Phone: 575-748-4171	

* Attach Additional Sheets If Necessary *NOTE: As a condition of approval, in addition to the attached COA document, chloride data will be used to determine remediation requirements.

State of New Mexico
Oil Conservation Division

Incident ID	nAB1723536168
District RP	2RP-4354
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Form C-141

Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAB1723536168
District RP	2RP-4354
Facility ID	
Application ID	

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

Printed Name: Chase SettleTitle: Rep Safety & Environmental SrSignature: Chase SettleDate: 03/30/2022email: Chase_Settle@eogresources.comTelephone: 575-748-1471**OCD Only**

Received by: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAB1723536168
District RP	2RP-4354
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: 03/30/2022
 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: _____

NM OIL CONSERVATION

ARTESIA DISTRICT

NM OIL CONSERVATION

ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240

DEC 01 2017

State of New Mexico

Energy Minerals and Natural Resources

DEC 01 2017

Form C-141
Revised April 3, 2017District II
811 S. First St., Artesia, NM 88210District III
1000 Rio Brazos Road, Aztec, NM 87410District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company EOG Y Resources, Inc. 25525		Contact Chase Settle
Address 104 S. 4 th Street Artesia NM 88210		Telephone No. 575-748-1471
Facility Name Ross EG Federal Battery (API for Ross EG Federal #3)		Facility Type Battery
Surface Owner Private	Mineral Owner Federal	API No. 30-015-25903

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	20	19S	25E	660	North	660	West	Eddy

Latitude 32.6519089 Longitude -104.5134125 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 10 B/PW	Volume Recovered 7 B/PW
Source of Release Produced Water Tank	Date and Hour of Occurrence 11/22/2017; AM	Date and Hour of Discovery 11/22/2017; 11:43 AM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken. * There was a failure of a transfer pump causing the overflow of a produced water tank, leading to the release. A vacuum truck was called to recover standing fluid and a backhoe was dispatched to excavate impacted soils.

Describe Area Affected and Cleanup Action Taken. *

The impacted area was identical to the area impacted by the 2RP-4354 release (255 feet by 15 feet within the primary battery berm), except this release did not breach the primary berm and there was an additional finger that followed the berm from the south tank that measured approximately 110 by 2 feet before tying back into the previously impacted and re-impacted release area. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. Depth to Ground Water: >100' (300', Section 20, T19S, R25E, per NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.

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Signature:	OIL CONSERVATION DIVISION	
Printed Name: Chase Settle	Approved by Environmental Specialist: <i>Accepted for record only</i>	
Title: Rep Safety & Environmental II	Approval Date: 12/4/17	Expiration Date: N/A
E-mail Address: chase_settle@eogresources.com	Conditions of Approval: see attached	Attached: 2RP-4509
Date: December 1, 2017	Phone: 575-748-4171	

* Attach Additional Sheets If Necessary

State of New Mexico
Oil Conservation Division

Incident ID	nAB1734036870
District RP	2RP-4509
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	nAB1734036870
District RP	2RP-4509
Facility ID	
Application ID	

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

Signature: Chase Settle Date: 03/30/2022

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

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAB1734036870
District RP	2RP-4509
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: 03/30/2022
 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: _____

2135 S. Loop 250 W,
Midland, Texas 79703
United States
www.ghd.com



Our ref: 12563388

March 29, 2022

New Mexico Oil Conservation Division
District 2
811 South First Street
Artesia, New Mexico 88210

Re: Site Characterization and Closure Report
Ross EG Federal Battery Release Site
EOG Resources Inc.
Remediation Permit: 2RP-4354 & 2RP-4509
D-20-19S-24E, Eddy County, New Mexico

To Whom It May Concern:

1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, analyses, and remedial activities in the affected areas at the EOG Ross EG Federal Battery Release Site (Site). The Site is located in the Unit Letter D Section 20 of Township 19 South and Range 24 East in Eddy County, New Mexico. The GPS coordinates for the Site are 32.6519089° N latitude and -104.5134125° W longitude. Figure 1 depicts the Site location. The EOG production facility and other Site details are depicted on Figures 2 and 3 respectively.

2. Background Information

On August 8, 2017, EOG had a release of thirty-five (35) barrels of produced water. The release was due to a failure of an underground produced water transfer line. A Form C-141 was submitted to the NMOCD District II Office on August 21, 2017. The C-141 states that approximately thirty (30) barrels of produced water was recovered. According to the C-141, the affected area was approximately two hundred fifty-five (255) feet by fifteen (15) feet within the primary berm of the facility and sixty-five (65) feet by twenty (20) feet outside of the primary berm, but within the secondary berm, at the northeast corner. A vacuum truck was dispatched to recover the standing fluid and a backhoe crew was contracted to excavate visually impacted soils.

On November 22, 2017, EOG had a release of ten (10) barrels of produced water. The release was due to a failure of a transfer pump which caused a produced water tank to overflow. A Form C-141 was submitted to the NMOCD District II Office on December 1, 2017. The C-141 states that approximately seven (7) barrels of produced water was recovered. According to the C-141, the affected area was identical to the area impacted by the August 8, 2017, except the release did not breach the primary berm and there was an additional finger that followed the berm from the south tank that measured approximately one hundred ten (110) feet by two (2) feet.

A vacuum truck was dispatched to recover the standing fluid and a backhoe crew was contracted to excavate visually impacted soils.

3. Groundwater and Site Characterization

GHD characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12). The release falls under the jurisdiction of the NMOCD District 2 in Artesia, New Mexico.

According to the Site characterization evaluation and NMAC 19.15.29.12.C(4)(a)(i), the Site is located within an area of medium KARST potential. USGS 323841104303201 water well was located within one half (0.50) mile of the Site. The water well, has a recorded groundwater depth of 124.87 feet. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) were located within each specific boundaries or distance from the Site. The Site is located in an area with groundwater greater than one hundred (100) feet and meets the closure criteria for depth to groundwater greater than one hundred (100) feet in Table I NMAC 19.15.29.12. The Site characterization documentation (KARST potential, USGS 323841104303201 documentation, FEMA, and Wetlands maps) are provided in Attachment A. The soil and closure criteria are provided below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth
No Receptors	>100 ft.

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Constituent	Limits
Chloride	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	N/A
Benzene	10 mg/kg
BTEX	50 mg/kg

4. Initial Soil Delineation Assessment Summary and Findings

On September 27 and 28, 2021, GHD and EOG's contractor Culberson Construction (CCI), on behalf of EOG, installed thirteen (13) test pits within the primary and secondary bermed areas at the Site. The test pit locations were excavated to approximately two (2) to eight (8) feet below grade. Samples were collected at the surface and at two (2) foot intervals. Samples were field screened for chlorides and hydrocarbons using a chloride field test kit and a PID meter.

All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. Test pit TP10 exhibited concentrations above Table I closure criteria at a depth of two (2) feet below grade. Figure 2, Initial Site Assessment: Analytical Results Map, depicts the locations of the initial delineation samples and analytical concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

5. Excavation, Waste Management and Confirmation Sampling

Due to preliminary soil sampling activities exhibiting TPH and chloride exceedances above the closure criteria in Table I, GHD and Standard Safety and Supply (SS) mobilized to the Site on November 11, 2021 to excavate the affected soils to approximately four (4) feet below grade. From November 15 through 24, 2021, twenty-three (23) bottom hole confirmation samples (BH-1 to BH-23) and six (6) sidewall confirmation samples (SW-1 to SW-6) were collected after a confirmation sampling notification was submitted to the NMOCD. All confirmation samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated that bottom hole confirmation sample BH-16 exhibited Total TPH concentrations above Table I closure criteria. All other confirmation samples exhibited concentrations below Table I closure criteria. All confirmation samples represented areas no greater than two hundred (200) square feet. Laboratory Analytical Reports and Chain-of-Custody Documentation are provided in Attachment C. Analytical results are summarized in attached Table 1.

On December 3, 2021, eighteen (18) bottom hole confirmation samples (BH-24 to BH-41) and six (6) side wall confirmation samples (SW-7 to SW-12) were collected after a confirmation sampling notification was submitted to the NMOCD. All confirmation samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated that none of the confirmation samples exhibited BTEX, TPH or chloride concentrations above Table I closure criteria. All confirmation samples represented areas no greater than two hundred (200) square feet. Laboratory Analytical Reports and Chain-of-Custody Documentation are provided in Attachment C. Analytical results are summarized in attached Table 1.

On December 6, 2021, confirmation sampling and excavation continued. After further excavation in the area represented by BH-16 a new confirmation sample was collected, BH-16A. Additionally, confirmation samples BH-49 to BH-52 and SW-13 to SW-16 were collected. All confirmation samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated that none of the confirmation samples exhibited BTEX, TPH or chloride concentrations above the Table I closure criteria. Bottom hole samples BH-49 through BH-52 were collect outside the primary berm. Analytical results collected at one (1) foot below grade exhibited TPH concentrations above NMAC 19.15.29.13 for restoration. All confirmation samples represented an area no greater than two hundred (200) square feet. Laboratory Analytical Reports and Chain-of-Custody Documentation are provided in Attachment C. Analytical results are summarized in attached Table 1.

On January 12, 2022, further remediation activities were conducted in the area where BH-49 to BH-52 were collected. Four (4) new bottom hole confirmation samples (BH-49A to BH-52A) were collected at a depth of two (2) feet below grade. A confirmation sampling notification was submitted to the NMOCD. All confirmation samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated that none of the confirmation samples exhibited BTEX, TPH or chloride concentrations above the Table I closure criteria. All confirmation samples represented areas no greater than two hundred (200) square feet. Laboratory Analytical Reports and Chain-of-Custody Documentation are provided in Attachment C. Analytical results are summarized in attached Table 1.

Waste management activities were performed in coordination with EOG directives. EOG obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (WM-1-035) Lea Land, LLC facility located at MM64, Highway 62/180 East, Carlsbad, NM, 88220. Approximately 1,375.29 tons of impacted soil was disposed of at Lea Land, LLC according to waste manifests from November 19, 2021 through January 5, 2022. Shipping manifests are available upon request and are not included in this report due to the size of the file. A Daily Disposal Summary is provided as Table 2. Confirmation sampling notifications are provided as Attachment D.

6. 2RP-4354 & 2RP-4509 Closure Request

Site characterization, soil delineation, and remediation activities for these Remediation Permit numbers have been performed in accordance with applicable NMOCD guidance and regulations. GHD, on behalf of EOG, respectfully requests closure and no further regulatory actions for 2RP-4354 & 2RP-4509 based upon supporting documentation provided in this Report.

If you have any questions or comments concerning this Report, please do not hesitate to contact our Midland office at (432) 686-0086.

Sincerely,

GHD



Becky Haskell
Senior Project Manager



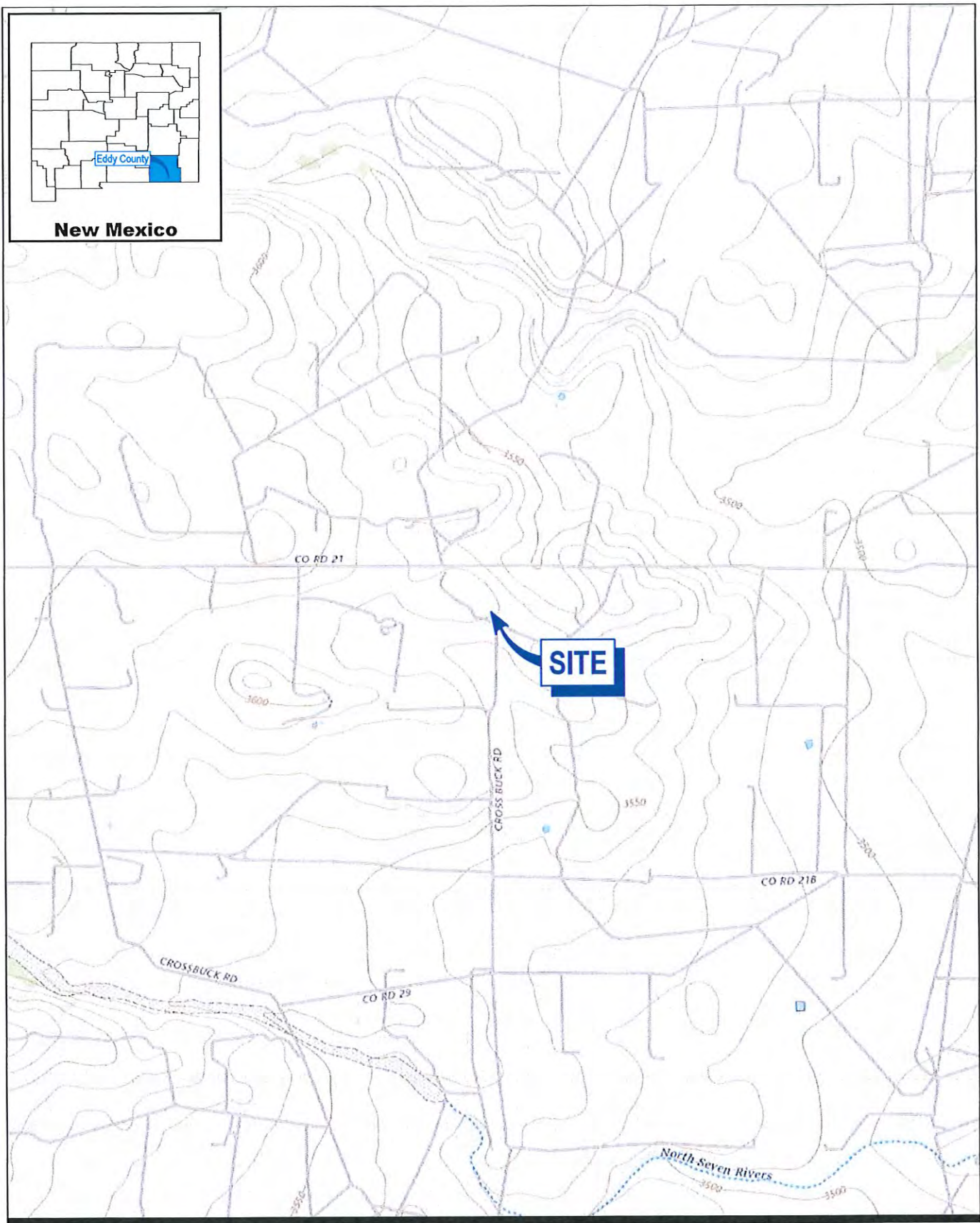
Tom Larson
Project Director

BH/tl/1

Encl. Figure 1 – Site Location Map
Figure 2 – Initial Site Assessment: Analytical Results Map
Figure 3 – Confirmation Sampling: Soil Analytical Results Map
Table 1 – Summary of Soil Analytical Data
Table 2 – Daily Disposal Summary
Attachment A – Site Characterization Documentation
Attachment B – Photographic Log
Attachment C – Laboratory Analytical Reports and Chain-of-Custody Documentation
Attachment D – Confirmation Sampling Notifications

cc: Chase Settle

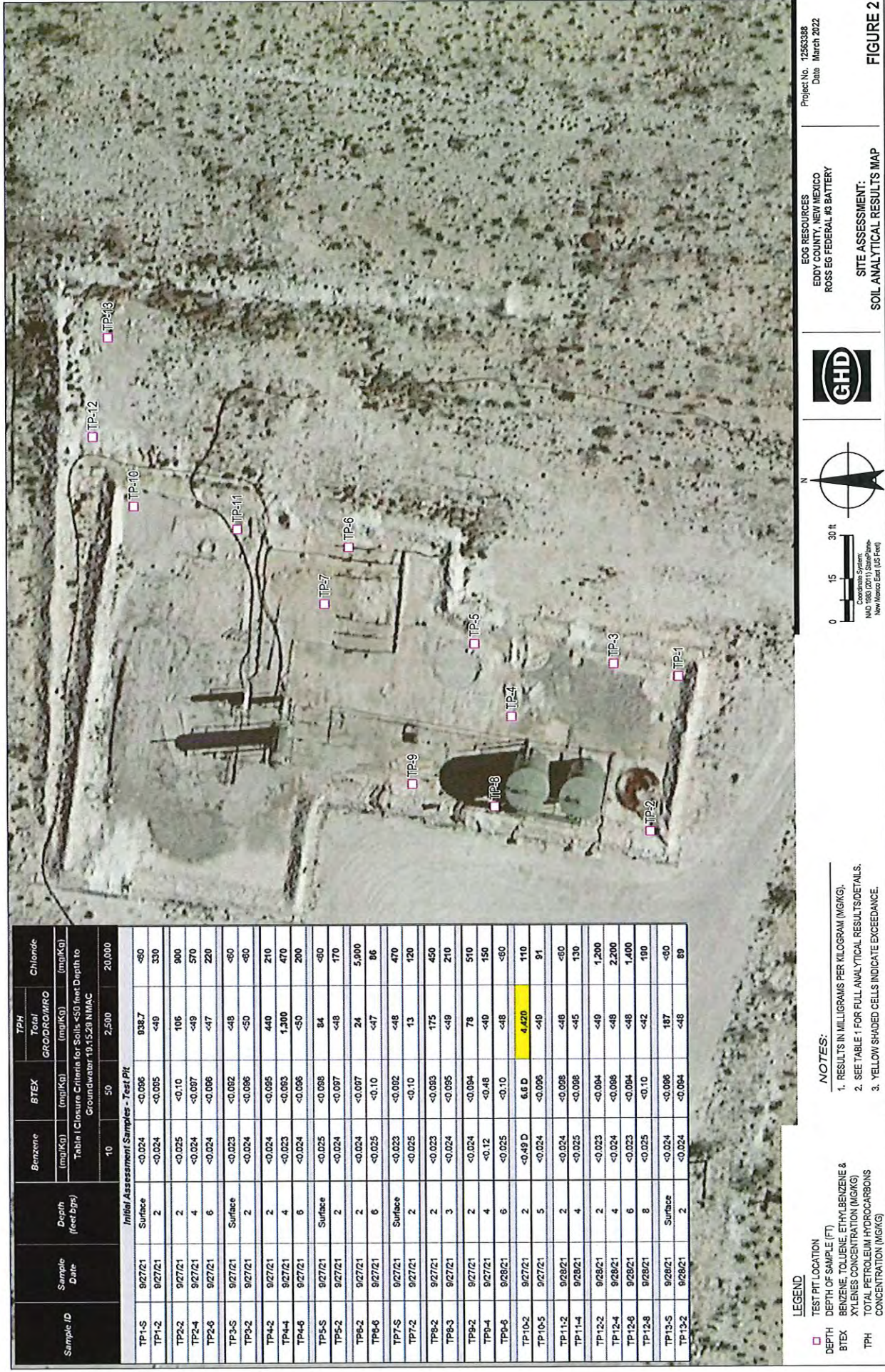
Figures

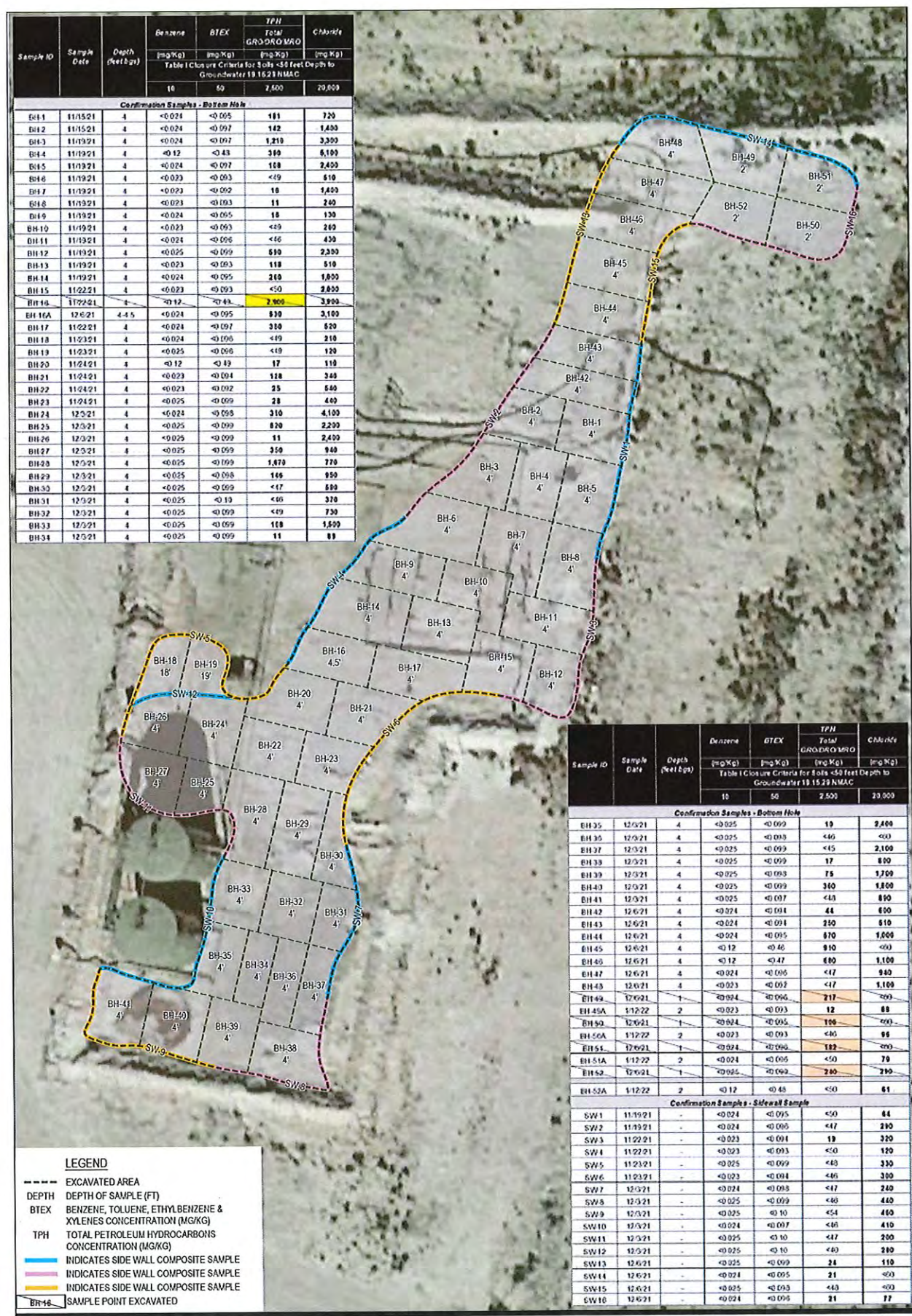


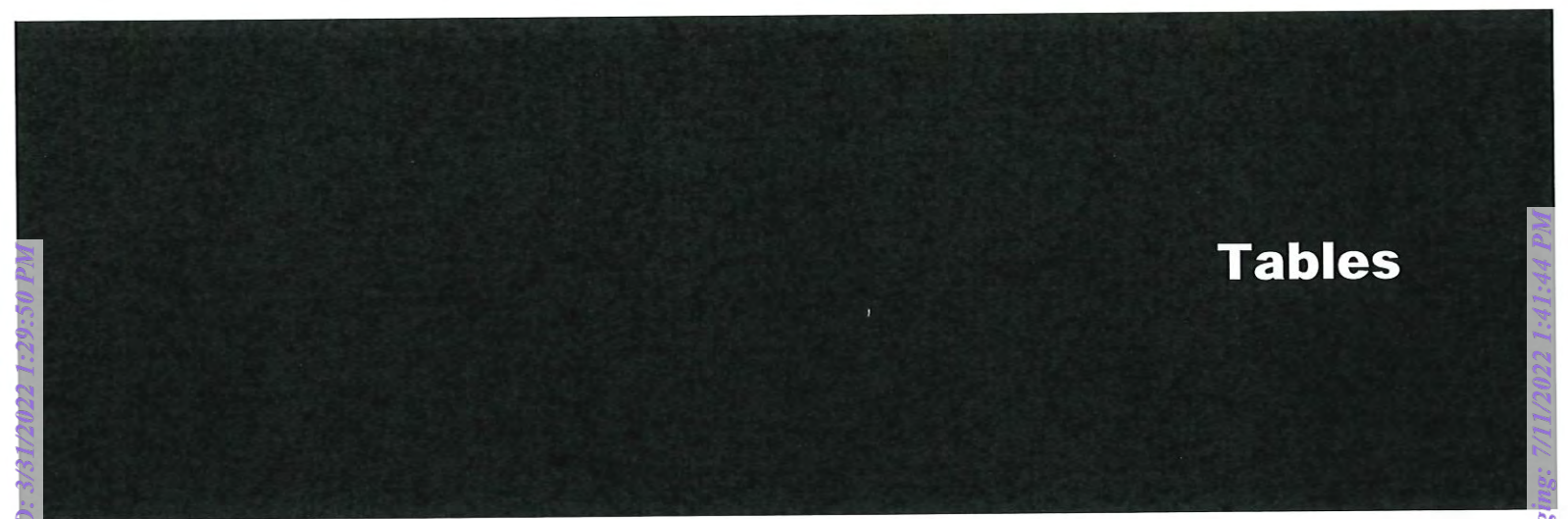
0 1000 2000 ft Coordinate System: NAD 1983 (2011) StatePlane- New Mexico East (US Feet) 		EOG RESOURCES EDDY COUNTY, NEW MEXICO ROSS EG FEDERAL #3 BATTERY SITE LOCATION MAP	Project No. 12563388 Date March 2022 FIGURE 1
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Filename: \\ghdnet\ghd\USM-land\Projects\562112563388\Digital_Design\ACAD\Figures\RPT001\12563388-GHD-0000-RPT-EN-0101_DL-001.dwg
Plot Date: 25 March 2022 12:35 PM

Data Source: USGS 7.5 Minute Quad "Parish Ranch and Dayton, New Mexico"
Lat/Long: 32.652035° North, 104.513084° West







Tables

Table 1
Summary of Soil Analytical Data
Ross EG Federal #3 Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	Total GRO/DRO/MRO (mg/Kg)	Chloride (mg/Kg)	
Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC													
10	---	---	---	---	50	---	---	---	2,500	20,000			
Initial Assessment Samples - Test Pit													
TP1-S	9/27/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	8.7	340	590	938.7	<60	
TP1-2	9/27/21	2	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.8	<49	<49	330	
TP2-2	9/27/21	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	22	84	106	900	
TP2-4	9/27/21	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	570	
TP2-6	9/27/21	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.4	<47	<47	220	
TP3-S	9/27/21	Surface	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.5	<48	<48	<60	
TP3-2	9/27/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<50	<60	
TP4-2	9/27/21	2	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	140	300	440	210	
TP4-4	9/27/21	4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	470	830	1,300	470	
TP4-6	9/27/21	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<50	<50	200	
TP5-S	9/27/21	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	17	67	84	<60	
TP5-2	9/27/21	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.7	<48	<48	170	
TP6-2	9/27/21	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	24	<48	24	5,900	
TP6-6	9/27/21	6	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<47	86	
TP7-S	9/27/21	Surface	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.6	<48	<48	470	
TP7-2	9/27/21	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	13	<47	13	120	
TP8-2	9/27/21	2	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	55	120	175	450	
TP8-3	9/27/21	3	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.7	<49	<49	210	
TP9-2	9/27/21	2	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	21	57	78	510	
TP9-4	9/27/21	4	<0.12	<0.24	<0.24	<0.48	<0.48	<24	<9.9	<49	<49	150	
TP9-6	9/28/21	6	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	<60	
TP10-2	9/27/21	2	<0.49 D	<0.98 D	1.4 D	5.2 D	6.6 D	220	2,800	1,400	4,420	110	
TP10-5	9/27/21	5	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	91	
TP11-2	9/28/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<46	<46	<60	
TP11-4	9/28/21	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<45	<45	130	
TP12-2	9/28/21	2	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.9	<49	<49	1,200	
TP12-4	9/28/21	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	2,200	
TP12-6	9/28/21	6	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.6	<48	<48	1,400	

Table 1
Summary of Soil Analytical Data
Ross EG Federal #3 Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	BTEX (mg/Kg)	TPH					Chloride (mg/Kg)
								GRO (C6-C10) (mg/Kg)	DRO (C10-C28) (mg/Kg)	MRO (C28-C35) (mg/Kg)	Total GRO/DRO/MRO (mg/Kg)		
												Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC	
10	---	---	---	50	---	---	---	---	---	2,500	20,000		
TP12-8	9/28/21	8	<0.025	<0.050	<0.050	<0.10	<0.10	<0.10	<8.4	<42	<42	190	
TP13-S	9/28/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<0.096	37	150	187	<60	
TP13-2	9/28/21	2	<0.024	<0.047	<0.047	<0.094	<0.094	<0.094	<9.5	<48	<48	89	
Confirmation Samples - Bottom Hole													
BH-1	11/15/21	4	<0.024	<0.048	<0.048	<0.095	<0.095	<0.095	97	84	181	720	
BH-2	11/15/21	4	<0.024	<0.048	<0.048	<0.097	<0.097	<0.097	57	85	142	1,400	
BH-3	11/19/21	4	<0.024	<0.048	<0.048	<0.097	<0.097	<0.097	600	610	1,210	3,300	
BH-4	11/19/21	4	<0.12	<0.24	<0.24	<0.48	<0.48	<0.48	200	190	390	5,100	
BH-5	11/19/21	4	<0.024	<0.049	<0.049	<0.097	<0.097	<0.097	44	64	108	2,400	
BH-6	11/19/21	4	<0.023	<0.047	<0.047	<0.093	<0.093	<0.093	<9.8	<49	<49	510	
BH-7	11/19/21	4	<0.023	<0.046	<0.046	<0.092	<0.092	<0.092	16	<48	16	1,400	
BH-8	11/19/21	4	<0.023	<0.047	<0.047	<0.093	<0.093	<0.093	11	<48	11	240	
BH-9	11/19/21	4	<0.024	<0.048	<0.048	<0.095	<0.095	<0.095	16	<48	16	130	
BH-10	11/19/21	4	<0.023	<0.047	<0.047	<0.093	<0.093	<0.093	<9.8	<49	<49	260	
BH-11	11/19/21	4	<0.024	<0.048	<0.048	<0.096	<0.096	<0.096	<9.2	<46	<46	430	
BH-12	11/19/21	4	<0.025	<0.050	<0.050	<0.099	<0.099	<0.099	330	260	590	2,300	
BH-13	11/19/21	4	<0.023	<0.047	<0.047	<0.093	<0.093	<0.093	54	64	118	510	
BH-14	11/19/21	4	<0.024	<0.048	<0.048	<0.095	<0.095	<0.095	100	160	260	1,000	
BH-15	11/22/21	4	<0.023	<0.046	<0.046	<0.093	<0.093	<0.093	<9.9	<50	<50	2,000	
BH-16	11/22/21	4	<0.12	<0.24	<0.24	<0.49	<0.49	<0.49	1,360	1,660	2,960	3,960	
BH-16A	12/6/21	4-4.5	<0.024	<0.047	<0.047	<0.095	<0.095	<0.095	250	280	530	3,100	
BH-17	11/22/21	4	<0.024	<0.048	<0.048	<0.097	<0.097	<0.097	150	230	380	520	
BH-18	11/23/21	1	<0.024	<0.048	<0.048	<0.096	<0.096	<0.096	<9.9	<49	<49	210	
BH-19	11/23/21	1	<0.025	<0.049	<0.049	<0.098	<0.098	<0.098	<9.8	<49	<49	120	
BH-20	11/24/21	4	<0.12	<0.25	<0.25	<0.49	<0.49	<0.49	17	<49	17	110	
BH-21	11/24/21	4	<0.023	<0.047	<0.047	<0.094	<0.094	<0.094	61	67	128	340	
BH-22	11/24/21	4	<0.023	<0.046	<0.046	<0.092	<0.092	<0.092	25	<48	25	540	
BH-23	11/24/21	4	<0.025	<0.049	<0.049	<0.099	<0.099	<0.099	28	<49	28	440	
BH-24	12/3/21	4	<0.024	<0.049	<0.049	<0.098	<0.098	<0.098	200	110	310	4,100	
BH-25	12/3/21	4	<0.025	<0.049	<0.049	<0.099	<0.099	<0.099	210	310	520	2,200	
BH-26	12/3/21	4	<0.025	<0.050	<0.050	<0.099	<0.099	<0.099	11	<43	11	2,400	
BH-27	12/3/21	4	<0.025	<0.050	<0.050	<0.099	<0.099	<0.099	170	180	350	940	
BH-28	12/3/21	4	<0.025	<0.050	<0.050	<0.099	<0.099	<0.099	950	720	1,670	770	

Table 1
Summary of Soil Analytical Data
Ross EG Federal #3 Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO	DRO	MRO	Total	
								(C6-C10)	(C10-C28)	(C28-C35)	GRO/DRO/MRO	
												(mg/Kg)
Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC												
			10	---	---	---	50	---	---	---	2,500	20,000
BH-29	12/3/21	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	69	77	146	950
BH-30	12/3/21	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<47	580
BH-31	12/3/21	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<46	<46	370
BH-32	12/3/21	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<49	730
BH-33	12/3/21	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	52	56	108	1,500
BH-34	12/3/21	4	<0.025	<0.049	<0.049	<0.099	<0.099	<5.0	11	<49	11	89
BH-35	12/3/21	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	10	<48	10	2,400
BH-36	12/3/21	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<46	<46	<60
BH-37	12/3/21	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.1	<45	<45	2,100
BH-38	12/3/21	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	17	<47	17	800
BH-39	12/3/21	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	75	<47	75	1,700
BH-40	12/3/21	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	210	150	360	1,800
BH-41	12/3/21	4	<0.025	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<48	890
BH-42	12/6/21	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	44	<50	44	600
BH-43	12/6/21	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	130	120	250	510
BH-44	12/6/21	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	320	250	570	1,000
BH-45	12/6/21	4	<0.12	<0.23	<0.23	<0.46	<0.46	<23	360	550	910	<60
BH-46	12/6/21	4	<0.12	<0.24	<0.24	<0.47	<0.47	<24	370	310	680	1,100
BH-47	12/6/21	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.4	<47	<47	940
BH-48	12/6/21	4	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.3	<47	<47	1,100
BH-49	12/6/21	1	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	87	139	217	<60
BH-49A	1/12/22	2	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	12	<49	12	88
BH-50	12/6/21	1	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	30	76	106	<60
BH-50A	1/12/22	2	<0.023	<0.048	<0.048	<0.093	<0.093	<4.6	<9.3	<46	<46	96
BH-51	12/6/21	1	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	99	83	182	<60
BH-51A	1/12/22	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<50	79
BH-52	12/6/21	1	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	128	129	248	290
BH-52A	1/12/22	2	<0.12	<0.24	<0.24	<0.48	<0.48	<24	<10	<50	<50	61
Confirmation Samples - Sidewall Sample												
SW-1	11/19/21	-	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<50	<50	64
SW-2	11/19/21	-	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.4	<47	<47	290
SW-3	11/22/21	-	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	19	<49	19	320
SW-4	11/22/21	-	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.9	<50	<50	120

Table 1
Summary of Soil Analytical Data
Ross EG Federal #3 Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO	DRO	MRO	Total	
								(C6-C10)	(C10-C28)	(C28-C35)	GRO/DRO/MRO	
Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC												
10	---	---	---	---	50	---	---	---	---	2,500	20,000	
SW-5	11/23/21	-	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<48	<48	330
SW-6	11/23/21	-	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.2	<46	<46	300
SW-7	12/3/21	-	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	240
SW-8	12/3/21	-	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.2	<46	<46	440
SW-9	12/3/21	-	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.0	<45	<54	460
SW-10	12/3/21	-	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.2	<46	<46	410
SW-11	12/3/21	-	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<47	<47	200
SW-12	12/3/21	-	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.0	<40	<40	280
SW-13	12/6/21	-	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	24	<48	24	110
SW-14	12/6/21	-	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	21	<48	21	<60
SW-15	12/6/21	-	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	<60
SW-16	12/6/21	-	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	21	<47	21	77

Notes:

1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B.

B-SH-2 Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod.

6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

Yellow shaded cells indicate analytical samples that exceed the NMAC
19.15.29.12 Table I for depth to water greater than 100 ft

Peach shaded cells indicate analytical samples that exceed the NMAC
19.15.29.12 Table I for depth to water less than 50 ft

Table 2
Daily Disposal Summary
Ross EG Federal #3
EOG Resources
Eddy, County, New Mexico

Date of Disposal	Total Pounds Disposed	Total Tons Disposed
11/19/2021	323,280	161.64
11/29/2021	419,940	209.97
11/30/2021	343,220	171.61
12/1/2021	352,060	176.03
12/2/2021	263,880	131.94
12/3/2021	178,640	89.32
12/6/2021	271,600	135.80
12/7/2021	317,260	158.63
12/9/2021	73,180	36.59
12/10/2021	38,180	19.09
1/5/2022	169,340	84.67
Project Total	2,750,580	1,375.29

Attachment A

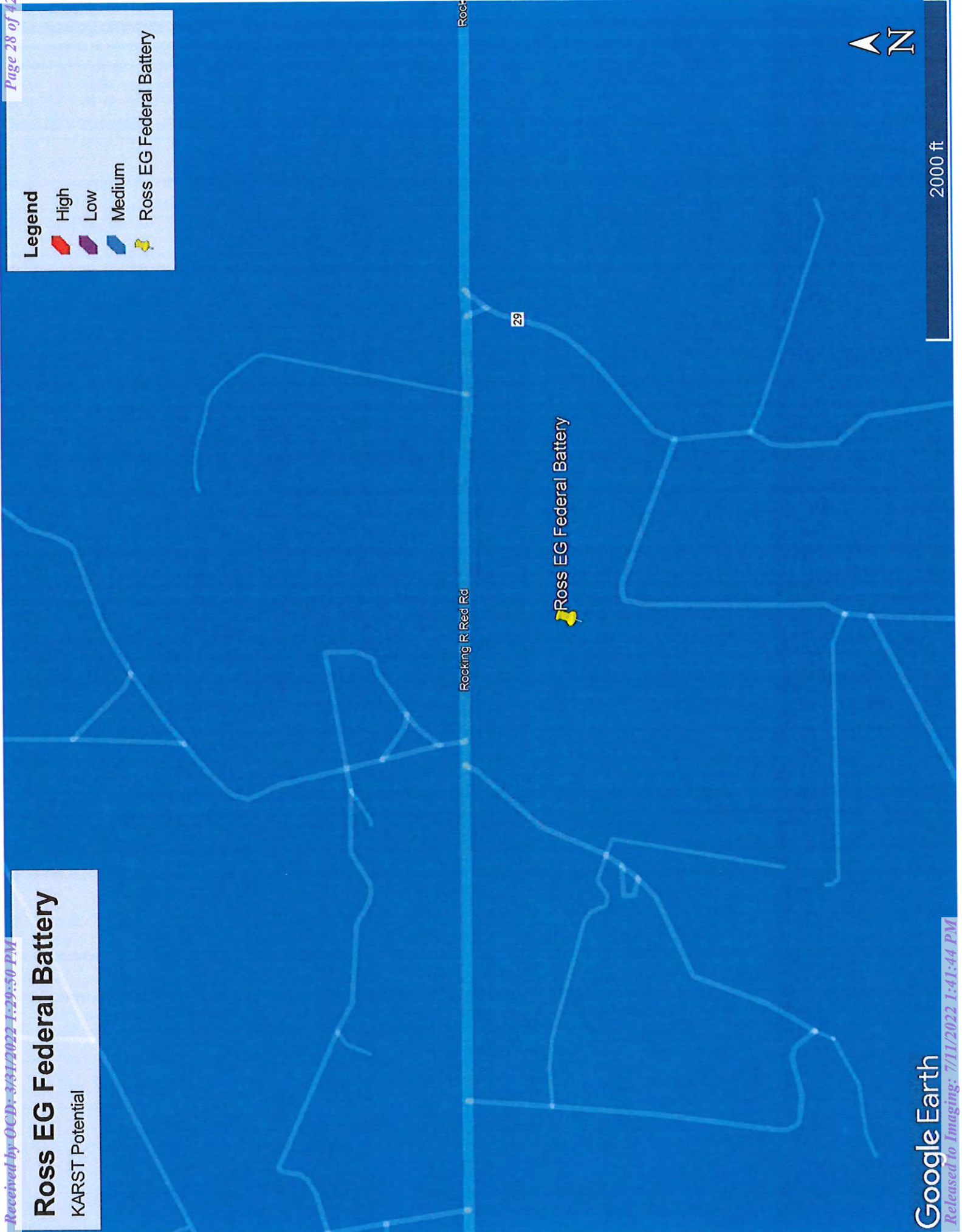
Site Characterization Documentation

Ross EG Federal Battery

KARST Potential

Legend

- High
- Low
- Medium
- Ross EG Federal Battery





National Water Information System: Web Interface

USGS Water Resources

USGS Groundwater for USA: Water Levels -- 1 sites

USGS Home
Contact USGS
Search USGS

Data Category:
Groundwater

Geographic Area:
United States

GO

Click to hideNews Bulletins

- Explore the [NEW USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation

1 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 323841104303201

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 323841104303201 19S.25E.20.341112

Eddy County, New Mexico
Latitude 32°38'41", Longitude 104°30'32" NAD27
Land-surface elevation 3,552 feet above NAVD88
The depth of the well is 130 feet below land surface.
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Source of measurement	? Water-level approval status
------	------	---	------------------------	---	---	---------------------------------	-------------	-------------------------------	-------------------------------	--

3/29/22, 10:40 AM

USGS Groundwater for USA: Water Levels -- 1 sites

Date	Time	Water-level date-time accuracy	?	Parameter code	level, feet below land surface	level, feet above specific vertical datum	Referenced vertical datum	?	Status	?	Method of measurement	?	Measuring agency	?	Source of measurement	Water-level approval status
1957-01-15			D	62610		3441.05	NGVD29	1			Z					A
1957-01-15			D	62611		3442.62	NAVD88	1			Z					A
1957-01-15			D	72019	109.38			1			Z					A
1979-03-08			D	62610		3432.93	NGVD29	1			Z					A
1979-03-08			D	62611		3434.50	NAVD88	1			Z					A
1979-03-08			D	72019	117.50			1			Z					A
1984-02-01			D	62610		3432.94	NGVD29	1			Z					A
1984-02-01			D	62611		3434.51	NAVD88	1			Z					A
1984-02-01			D	72019	117.49			1			Z					A
1989-02-10			D	62610		3433.75	NGVD29	1			Z					A
1989-02-10			D	62611		3435.32	NAVD88	1			Z					A
1989-02-10			D	72019	116.68			1			Z					A
1990-02-22			D	62610		3432.55	NGVD29	1			S					A
1990-02-22			D	62611		3434.12	NAVD88	1			S					A
1990-02-22			D	72019	117.88			1			S					A
1992-02-04			D	62610		3432.58	NGVD29	1			S					A
1992-02-04			D	62611		3434.15	NAVD88	1			S					A
1992-02-04			D	72019	117.85			1			S					A
1993-02-05			D	62610		3432.16	NGVD29	1			S					A
1993-02-05			D	62611		3433.73	NAVD88	1			S					A
1993-02-05			D	72019	118.27			1			S					A
1994-02-10			D	62610		3431.49	NGVD29	1			S					A
1994-02-10			D	62611		3433.06	NAVD88	1			S					A
1994-02-10			D	72019	118.94			1			S					A
1999-01-19			D	62610		3429.84	NGVD29	1			S		USGS			S
1999-01-19			D	62611		3431.41	NAVD88	1			S		USGS			S
1999-01-19			D	72019	120.59			1			S		USGS			S
2004-02-09			D	62610		3428.29	NGVD29	1			S		USGS			S
2004-02-09			D	62611		3429.86	NAVD88	1			S		USGS			S
2004-02-09			D	72019	122.14			1			S		USGS			S
2005-02-03	17:30 UTC		m	62610		3428.34	NGVD29	1			S		NM001			A

2/4

3/29/22, 10:40 AM

USGS Groundwater for USA: Water Levels -- 1 sites

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
2005-02-03	17:30 UTC	m	62611		3429.91	NAVD88	1	S	NM001	A	A
2005-02-03	17:30 UTC	m	72019	122.09			1	S	NM001	A	A
2006-02-08	18:50 UTC	m	62610		3428.06	NGVD29	1	S	NM001	A	A
2006-02-08	18:50 UTC	m	62611		3429.63	NAVD88	1	S	NM001	A	A
2006-02-08	18:50 UTC	m	72019	122.37			1	S	NM001	A	A
2007-03-06	16:40 UTC	m	62610		3427.53	NGVD29	1	S	NM001	A	A
2007-03-06	16:40 UTC	m	62611		3429.10	NAVD88	1	S	NM001	A	A
2007-03-06	16:40 UTC	m	72019	122.90			1	S	NM001	A	A
2008-01-14	20:55 UTC	m	62610		3426.92	NGVD29	1	S	NM001	A	A
2008-01-14	20:55 UTC	m	62611		3428.49	NAVD88	1	S	NM001	A	A
2008-01-14	20:55 UTC	m	72019	123.51			1	S	NM001	A	A
2009-01-07	20:30 UTC	m	62610		3426.09	NGVD29	1	S	NM001	A	A
2009-01-07	20:30 UTC	m	62611		3427.66	NAVD88	1	S	NM001	A	A
2009-01-07	20:30 UTC	m	72019	124.34			1	S	NM001	A	A
2010-01-21	16:25 UTC	m	62610		3424.92	NGVD29	1	S	NM001	A	A
2010-01-21	16:25 UTC	m	62611		3426.49	NAVD88	1	S	NM001	A	A
2010-01-21	16:25 UTC	m	72019	125.51			1	S	NM001	A	A
2011-01-19	16:05 UTC	m	62610		3425.56	NGVD29	1	S	NM001	A	A
2011-01-19	16:05 UTC	m	62611		3427.13	NAVD88	1	S	NM001	A	A
2011-01-19	16:05 UTC	m	72019	124.87			1	S	NM001	A	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929

https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=323841104303201&agency_cd=USGS&format=html

3/29/22, 10:40 AM

USGS Groundwater for USA: Water Levels -- 1 sites

Section	Code	Description
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	NM001	New Mexico State Engineers Office
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	A	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

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

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-03-29 11:40:15 EDT

0.38 0.32 nadw01



Ross EG Federal #3

USGS Distance Map

Legend

-  0.50 Miles
-  Ross EG Federal #3
-  USGS 323841104303201

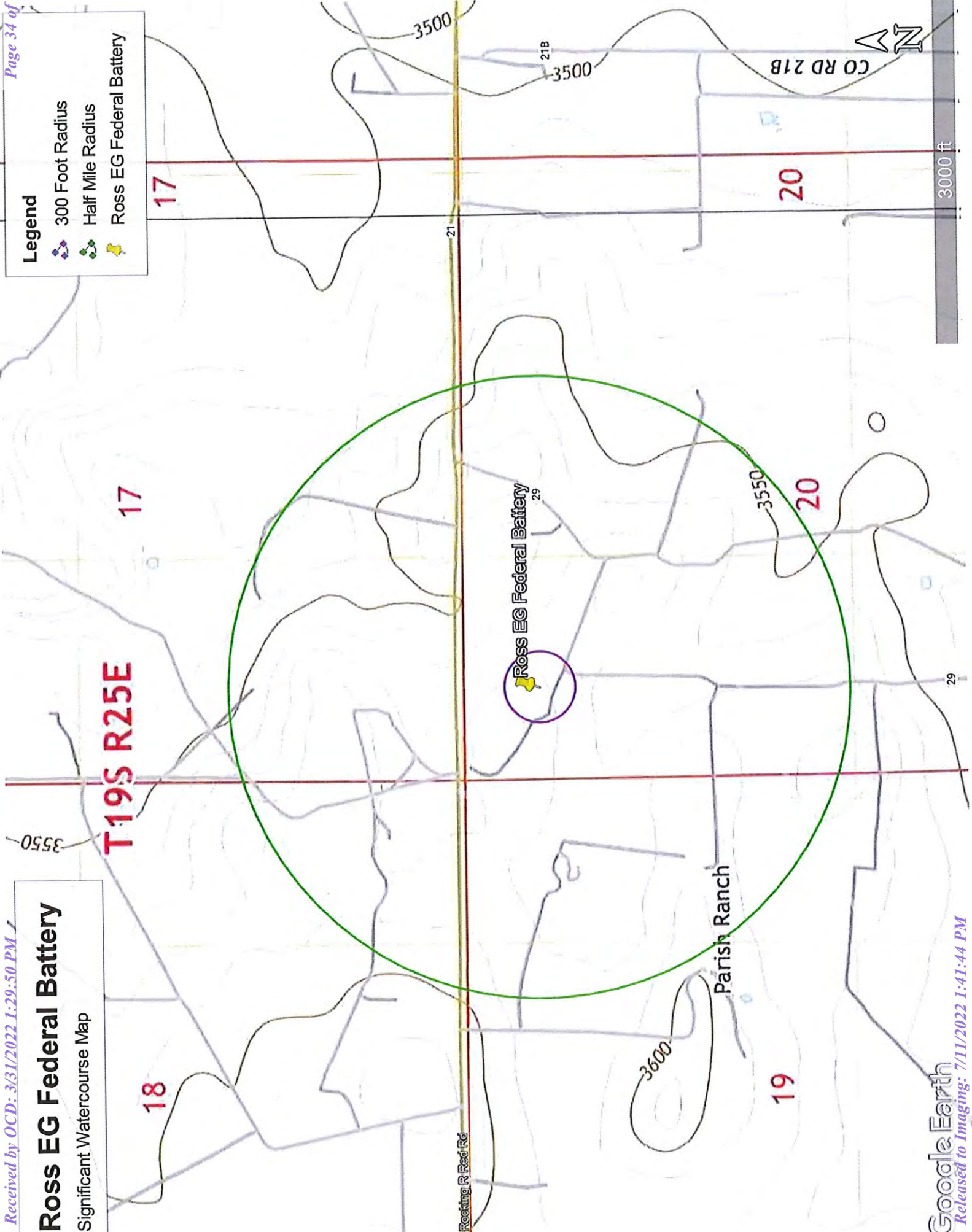


Ross EG Federal Battery

Significant Watercourse Map

Legend

- 300 Foot Radius
- Half Mile Radius
- Ross EG Federal Battery



U.S. Fish and Wildlife Service
National Wetlands Inventory

Ross EG Federal #3



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

March 29, 2022

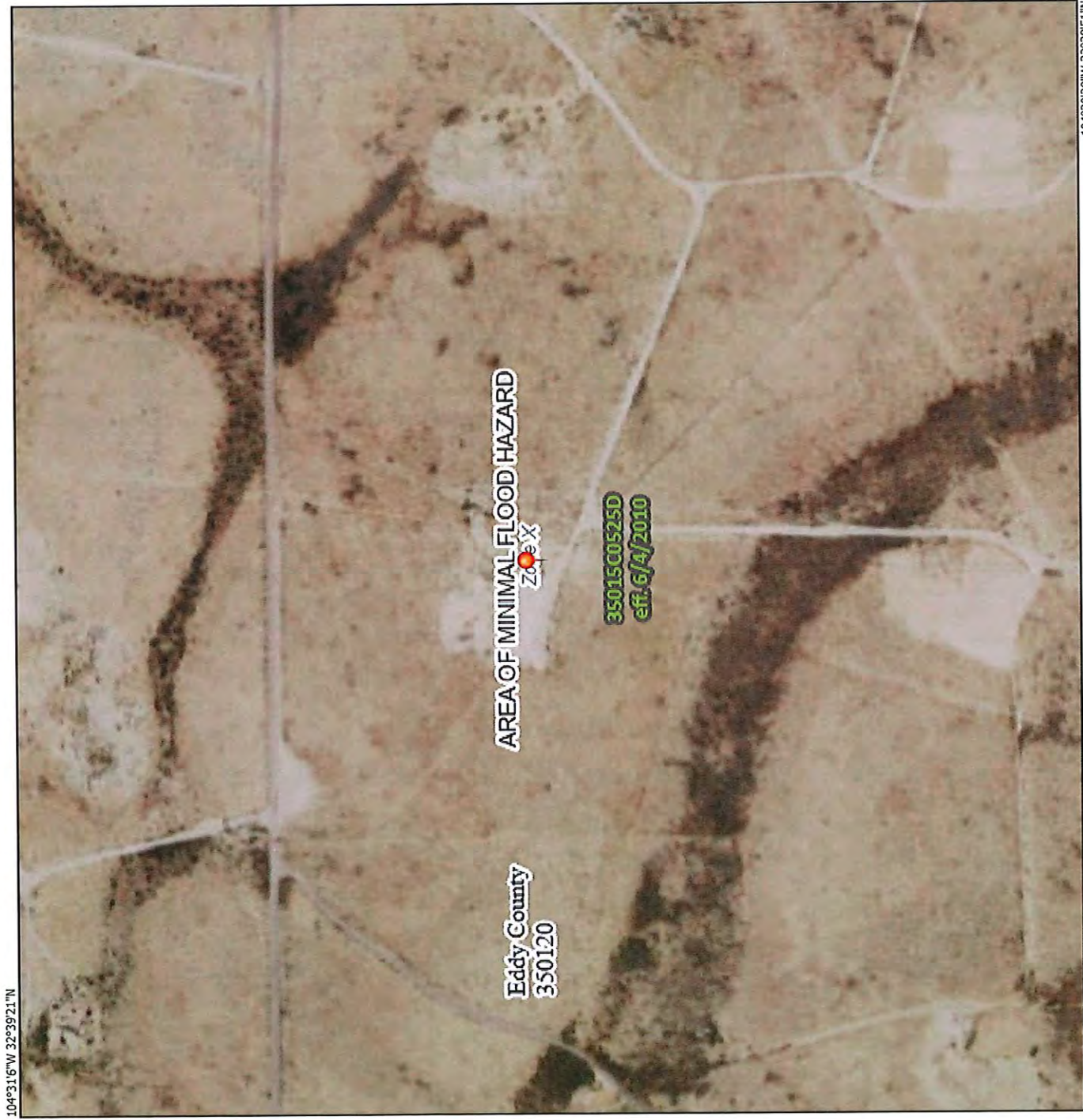
Wetlands

- | | | | |
|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Lake |
|  | Estuarine and Marine Wetland |  | Other |
| | |  | Riverine |
|  | Freshwater Emergent Wetland | | |
|  | Freshwater Forested/Shrub Wetland | | |
|  | Freshwater Pond | | |

National Flood Hazard Layer FIRMette



104°31'16"W 32°39'21"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
OTHER AREAS OF FLOOD HAZARD		Regulatory Floodway
		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
OTHER AREAS		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee, See Notes, Zone X
		Area with Flood Risk due to Levee Zone D
		Area of Minimal Flood Hazard Zone X
GENERAL STRUCTURES		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
OTHER FEATURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
MAP PANELS		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
MAP PANELS		Unmapped
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/29/2022 at 11:54 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

0 250 500 1,000 1,500 2,000 Feet 1:6,000

Attachment B Photographic Log



Site Photograph

EOG Ross EG Federal #3
Battery Release Site.

GHD | Report for EOG | 12563388

Attachment C

Laboratory Analytical Reports and Chain-of-Custody Documentation



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

October 14, 2021

Tom Larson
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX

RE: Ross Federal E6 Battery

OrderNo.: 2109G53

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 22 sample(s) on 9/29/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2109G53

Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP1-S

Project: Ross Federal E6 Battery

Collection Date: 9/27/2021 7:55:00 AM

Lab ID: 2109G53-001

Matrix: SOIL

Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/4/2021 3:10:04 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	340	98		mg/Kg	10	10/4/2021 10:15:17 PM	62962
Motor Oil Range Organics (MRO)	590	490		mg/Kg	10	10/4/2021 10:15:17 PM	62962
Surr: DNOP	0	70-130	S	%Rec	10	10/4/2021 10:15:17 PM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	8.7	4.8		mg/Kg	1	10/2/2021 7:35:00 PM	62933
Surr: BFB	129	70-130		%Rec	1	10/2/2021 7:35:00 PM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/2/2021 7:35:00 PM	62933
Toluene	ND	0.048		mg/Kg	1	10/2/2021 7:35:00 PM	62933
Ethylbenzene	ND	0.048		mg/Kg	1	10/2/2021 7:35:00 PM	62933
Xylenes, Total	0.24	0.096		mg/Kg	1	10/2/2021 7:35:00 PM	62933
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	10/2/2021 7:35:00 PM	62933

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

Qualifiers:

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

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

Page 1 of 29

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

CLIENT: GHD Midland Client Sample ID: TP1-2
Project: Ross Federal E6 Battery Collection Date: 9/27/2021 8:00:00 AM
Lab ID: 2109G53-002 Matrix: SOIL Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	330	60		mg/Kg	20	10/4/2021 3:47:18 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/4/2021 10:38:57 PM	62962
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/4/2021 10:38:57 PM	62962
Surr: DNOP	108	70-130		%Rec	1	10/4/2021 10:38:57 PM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/2/2021 7:55:00 PM	62933
Surr: BFB	91.4	70-130		%Rec	1	10/2/2021 7:55:00 PM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/2/2021 7:55:00 PM	62933
Toluene	ND	0.047		mg/Kg	1	10/2/2021 7:55:00 PM	62933
Ethylbenzene	ND	0.047		mg/Kg	1	10/2/2021 7:55:00 PM	62933
Xylenes, Total	ND	0.095		mg/Kg	1	10/2/2021 7:55:00 PM	62933
Surr: 4-Bromofluorobenzene	78.6	70-130		%Rec	1	10/2/2021 7:55:00 PM	62933

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

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

Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross Federal E6 Battery
Lab ID: 2109G53-003
Matrix: SOIL
Client Sample ID: TP2-2
Collection Date: 9/27/2021 8:10:00 AM
Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	900	59		mg/Kg	20	10/4/2021 3:59:43 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	22	9.8		mg/Kg	1	10/11/2021 9:48:24 PM	62962
Motor Oil Range Organics (MRO)	84	49		mg/Kg	1	10/11/2021 9:48:24 PM	62962
Surr: DNOP	98.5	70-130		%Rec	1	10/11/2021 9:48:24 PM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/2/2021 8:14:00 PM	62933
Surr: BFB	89.7	70-130		%Rec	1	10/2/2021 8:14:00 PM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	10/2/2021 8:14:00 PM	62933
Toluene	ND	0.050		mg/Kg	1	10/2/2021 8:14:00 PM	62933
Ethylbenzene	ND	0.050		mg/Kg	1	10/2/2021 8:14:00 PM	62933
Xylenes, Total	ND	0.10		mg/Kg	1	10/2/2021 8:14:00 PM	62933
Surr: 4-Bromofluorobenzene	77.5	70-130		%Rec	1	10/2/2021 8:14:00 PM	62933

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

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

Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross Federal E6 Battery
Lab ID: 2109G53-004
Matrix: SOIL
Client Sample ID: TP2-4
Collection Date: 9/27/2021 8:20:00 AM
Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	570	60		mg/Kg	20	10/4/2021 4:12:07 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/4/2021 11:26:19 PM	62962
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/4/2021 11:26:19 PM	62962
Surr: DNOP	103	70-130		%Rec	1	10/4/2021 11:26:19 PM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/2/2021 8:34:00 PM	62933
Surr: BFB	94.9	70-130		%Rec	1	10/2/2021 8:34:00 PM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/2/2021 8:34:00 PM	62933
Toluene	ND	0.049		mg/Kg	1	10/2/2021 8:34:00 PM	62933
Ethylbenzene	ND	0.049		mg/Kg	1	10/2/2021 8:34:00 PM	62933
Xylenes, Total	ND	0.097		mg/Kg	1	10/2/2021 8:34:00 PM	62933
Surr: 4-Bromofluorobenzene	81.7	70-130		%Rec	1	10/2/2021 8:34:00 PM	62933

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

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

Analytical Report

Lab Order 2109G53

Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP2-6

Project: Ross Federal E6 Battery

Collection Date: 9/27/2021 8:30:00 AM

Lab ID: 2109G53-005

Matrix: SOIL

Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	220	60		mg/Kg	20	10/4/2021 4:24:32 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/4/2021 11:49:58 PM	62962
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/4/2021 11:49:58 PM	62962
Surr: DNOP	106	70-130		%Rec	1	10/4/2021 11:49:58 PM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/2/2021 8:54:00 PM	62933
Surr: BFB	94.6	70-130		%Rec	1	10/2/2021 8:54:00 PM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/2/2021 8:54:00 PM	62933
Toluene	ND	0.048		mg/Kg	1	10/2/2021 8:54:00 PM	62933
Ethylbenzene	ND	0.048		mg/Kg	1	10/2/2021 8:54:00 PM	62933
Xylenes, Total	ND	0.096		mg/Kg	1	10/2/2021 8:54:00 PM	62933
Surr: 4-Bromofluorobenzene	82.9	70-130		%Rec	1	10/2/2021 8:54:00 PM	62933

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

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

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Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross Federal E6 Battery
Lab ID: 2109G53-006
Matrix: SOIL
Client Sample ID: TP3-S
Collection Date: 9/27/2021 8:45:00 AM
Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/4/2021 4:36:57 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/5/2021 12:13:44 AM	62962
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/5/2021 12:13:44 AM	62962
Surr: DNOP	105	70-130		%Rec	1	10/5/2021 12:13:44 AM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/2/2021 9:13:00 PM	62933
Surr: BFB	97.9	70-130		%Rec	1	10/2/2021 9:13:00 PM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	10/2/2021 9:13:00 PM	62933
Toluene	ND	0.046		mg/Kg	1	10/2/2021 9:13:00 PM	62933
Ethylbenzene	ND	0.046		mg/Kg	1	10/2/2021 9:13:00 PM	62933
Xylenes, Total	ND	0.092		mg/Kg	1	10/2/2021 9:13:00 PM	62933
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	10/2/2021 9:13:00 PM	62933

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

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

Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP3-2
Project: Ross Federal E6 Battery Collection Date: 9/27/2021 8:50:00 AM
Lab ID: 2109G53-007 Matrix: SOIL Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/4/2021 5:14:10 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/5/2021 12:37:22 AM	62962
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/5/2021 12:37:22 AM	62962
Surr: DNOP	105	70-130		%Rec	1	10/5/2021 12:37:22 AM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/2/2021 9:33:00 PM	62933
Surr: BFB	96.6	70-130		%Rec	1	10/2/2021 9:33:00 PM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/2/2021 9:33:00 PM	62933
Toluene	ND	0.048		mg/Kg	1	10/2/2021 9:33:00 PM	62933
Ethylbenzene	ND	0.048		mg/Kg	1	10/2/2021 9:33:00 PM	62933
Xylenes, Total	ND	0.096		mg/Kg	1	10/2/2021 9:33:00 PM	62933
Surr: 4-Bromofluorobenzene	82.9	70-130		%Rec	1	10/2/2021 9:33:00 PM	62933

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

CLIENT: GHD Midland
Project: Ross Federal E6 Battery
Lab ID: 2109G53-008
Matrix: SOIL
Client Sample ID: TP4-2
Collection Date: 9/27/2021 9:00:00 AM
Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	210	60		mg/Kg	20	10/4/2021 5:26:35 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	140	20		mg/Kg	2	10/9/2021 10:42:58 AM	62962
Motor Oil Range Organics (MRO)	300	100		mg/Kg	2	10/9/2021 10:42:58 AM	62962
Surr: DNOP	113	70-130		%Rec	2	10/9/2021 10:42:58 AM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/2/2021 10:51:00 PM	62933
Surr: BFB	97.1	70-130		%Rec	1	10/2/2021 10:51:00 PM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/2/2021 10:51:00 PM	62933
Toluene	ND	0.047		mg/Kg	1	10/2/2021 10:51:00 PM	62933
Ethylbenzene	ND	0.047		mg/Kg	1	10/2/2021 10:51:00 PM	62933
Xylenes, Total	ND	0.095		mg/Kg	1	10/2/2021 10:51:00 PM	62933
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	10/2/2021 10:51:00 PM	62933

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

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

CLIENT: GHD Midland
Project: Ross Federal E6 Battery
Lab ID: 2109G53-009

Matrix: SOIL

Client Sample ID: TP4-4
Collection Date: 9/27/2021 9:10:00 AM
Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	470	59		mg/Kg	20	10/4/2021 5:38:59 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	470	96		mg/Kg	10	10/5/2021 1:24:51 AM	62962
Motor Oil Range Organics (MRO)	830	480		mg/Kg	10	10/5/2021 1:24:51 AM	62962
Surr: DNOP	0	70-130	S	%Rec	10	10/5/2021 1:24:51 AM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/2/2021 11:11:00 PM	62933
Surr: BFB	101	70-130		%Rec	1	10/2/2021 11:11:00 PM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	10/2/2021 11:11:00 PM	62933
Toluene	ND	0.047		mg/Kg	1	10/2/2021 11:11:00 PM	62933
Ethylbenzene	ND	0.047		mg/Kg	1	10/2/2021 11:11:00 PM	62933
Xylenes, Total	ND	0.093		mg/Kg	1	10/2/2021 11:11:00 PM	62933
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	10/2/2021 11:11:00 PM	62933

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

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

CLIENT: GHD Midland
Project: Ross Federal E6 Battery
Lab ID: 2109G53-010
Matrix: SOIL
Client Sample ID: TP4-6
Collection Date: 9/27/2021 9:20:00 AM
Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	200	61		mg/Kg	20	10/4/2021 5:51:25 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/5/2021 1:48:36 AM	62962
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/5/2021 1:48:36 AM	62962
Surr: DNOP	109	70-130		%Rec	1	10/5/2021 1:48:36 AM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/2/2021 11:30:00 PM	62933
Surr: BFB	94.4	70-130		%Rec	1	10/2/2021 11:30:00 PM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/2/2021 11:30:00 PM	62933
Toluene	ND	0.048		mg/Kg	1	10/2/2021 11:30:00 PM	62933
Ethylbenzene	ND	0.048		mg/Kg	1	10/2/2021 11:30:00 PM	62933
Xylenes, Total	ND	0.096		mg/Kg	1	10/2/2021 11:30:00 PM	62933
Surr: 4-Bromofluorobenzene	78.4	70-130		%Rec	1	10/2/2021 11:30:00 PM	62933

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP5-S
Project: Ross Federal E6 Battery Collection Date: 9/27/2021 9:35:00 AM
Lab ID: 2109G53-011 Matrix: SOIL Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/4/2021 6:03:50 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	17	9.9		mg/Kg	1	10/9/2021 2:43:03 PM	62962
Motor Oil Range Organics (MRO)	67	49		mg/Kg	1	10/9/2021 2:43:03 PM	62962
Surr: DNOP	125	70-130		%Rec	1	10/9/2021 2:43:03 PM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/2/2021 11:50:00 PM	62933
Surr: BFB	91.4	70-130		%Rec	1	10/2/2021 11:50:00 PM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	10/2/2021 11:50:00 PM	62933
Toluene	ND	0.049		mg/Kg	1	10/2/2021 11:50:00 PM	62933
Ethylbenzene	ND	0.049		mg/Kg	1	10/2/2021 11:50:00 PM	62933
Xylenes, Total	ND	0.098		mg/Kg	1	10/2/2021 11:50:00 PM	62933
Surr: 4-Bromofluorobenzene	78.7	70-130		%Rec	1	10/2/2021 11:50:00 PM	62933

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

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

Analytical Report

Lab Order 2109G53

Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP5-2

Project: Ross Federal E6 Battery

Collection Date: 9/27/2021 9:40:00 AM

Lab ID: 2109G53-012

Matrix: SOIL

Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	170	60		mg/Kg	20	10/4/2021 6:16:15 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/5/2021 2:36:04 AM	62962
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/5/2021 2:36:04 AM	62962
Surr: DNOP	108	70-130		%Rec	1	10/5/2021 2:36:04 AM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/3/2021 12:10:00 AM	62933
Surr: BFB	95.1	70-130		%Rec	1	10/3/2021 12:10:00 AM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/3/2021 12:10:00 AM	62933
Toluene	ND	0.048		mg/Kg	1	10/3/2021 12:10:00 AM	62933
Ethylbenzene	ND	0.048		mg/Kg	1	10/3/2021 12:10:00 AM	62933
Xylenes, Total	ND	0.097		mg/Kg	1	10/3/2021 12:10:00 AM	62933
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	10/3/2021 12:10:00 AM	62933

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

CLIENT: GHD Midland
Project: Ross Federal E6 Battery
Lab ID: 2109G53-013
Matrix: SOIL
Client Sample ID: TP6-2
Collection Date: 9/27/2021 10:00:00 AM
Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5900	150		mg/Kg	50	10/6/2021 7:48:23 AM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	24	9.6		mg/Kg	1	10/5/2021 2:59:47 AM	62962
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/5/2021 2:59:47 AM	62962
Surr: DNOP	112	70-130		%Rec	1	10/5/2021 2:59:47 AM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/3/2021 12:29:00 AM	62933
Surr: BFB	89.5	70-130		%Rec	1	10/3/2021 12:29:00 AM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/3/2021 12:29:00 AM	62933
Toluene	ND	0.049		mg/Kg	1	10/3/2021 12:29:00 AM	62933
Ethylbenzene	ND	0.049		mg/Kg	1	10/3/2021 12:29:00 AM	62933
Xylenes, Total	ND	0.097		mg/Kg	1	10/3/2021 12:29:00 AM	62933
Surr: 4-Bromofluorobenzene	79.2	70-130		%Rec	1	10/3/2021 12:29:00 AM	62933

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

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

Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross Federal E6 Battery
Lab ID: 2109G53-014

Matrix: SOIL

Client Sample ID: TP6-6
Collection Date: 9/27/2021 10:25:00 AM
Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	86	60		mg/Kg	20	10/4/2021 6:41:05 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/5/2021 3:23:25 AM	62962
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/5/2021 3:23:25 AM	62962
Surr: DNOP	103	70-130		%Rec	1	10/5/2021 3:23:25 AM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/3/2021 12:49:00 AM	62933
Surr: BFB	93.9	70-130		%Rec	1	10/3/2021 12:49:00 AM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	10/3/2021 12:49:00 AM	62933
Toluene	ND	0.050		mg/Kg	1	10/3/2021 12:49:00 AM	62933
Ethylbenzene	ND	0.050		mg/Kg	1	10/3/2021 12:49:00 AM	62933
Xylenes, Total	ND	0.10		mg/Kg	1	10/3/2021 12:49:00 AM	62933
Surr: 4-Bromofluorobenzene	82.0	70-130		%Rec	1	10/3/2021 12:49:00 AM	62933

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

CLIENT: GHD Midland
Project: Ross Federal E6 Battery
Lab ID: 2109G53-015
Matrix: SOIL
Client Sample ID: TP7-S
Collection Date: 9/27/2021 11:15:00 AM
Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	470	60		mg/Kg	20	10/4/2021 6:53:30 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/5/2021 3:47:09 AM	62962
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/5/2021 3:47:09 AM	62962
Surr: DNOP	94.8	70-130		%Rec	1	10/5/2021 3:47:09 AM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/3/2021 1:08:00 AM	62933
Surr: BFB	96.1	70-130		%Rec	1	10/3/2021 1:08:00 AM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	10/3/2021 1:08:00 AM	62933
Toluene	ND	0.046		mg/Kg	1	10/3/2021 1:08:00 AM	62933
Ethylbenzene	ND	0.046		mg/Kg	1	10/3/2021 1:08:00 AM	62933
Xylenes, Total	ND	0.092		mg/Kg	1	10/3/2021 1:08:00 AM	62933
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	10/3/2021 1:08:00 AM	62933

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

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

Analytical Report

Lab Order 2109G53

Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Project: Ross Federal E6 Battery

Lab ID: 2109G53-016

Matrix: SOIL

Client Sample ID: TP7-2

Collection Date: 9/27/2021 11:30:00 AM

Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	120	59		mg/Kg	20	10/4/2021 7:05:55 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	13	9.5		mg/Kg	1	10/5/2021 4:10:51 AM	62962
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/5/2021 4:10:51 AM	62962
Surr: DNOP	102	70-130		%Rec	1	10/5/2021 4:10:51 AM	62962
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/3/2021 1:28:00 AM	62933
Surr: BFB	93.4	70-130		%Rec	1	10/3/2021 1:28:00 AM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	10/3/2021 1:28:00 AM	62933
Toluene	ND	0.050		mg/Kg	1	10/3/2021 1:28:00 AM	62933
Ethylbenzene	ND	0.050		mg/Kg	1	10/3/2021 1:28:00 AM	62933
Xylenes, Total	ND	0.10		mg/Kg	1	10/3/2021 1:28:00 AM	62933
Surr: 4-Bromofluorobenzene	80.6	70-130		%Rec	1	10/3/2021 1:28:00 AM	62933

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

Qualifiers:

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

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

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Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross Federal E6 Battery
Lab ID: 2109G53-017
Matrix: SOIL
Client Sample ID: TP8-2
Collection Date: 9/27/2021 12:40:00 PM
Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	450	60		mg/Kg	20	10/4/2021 7:43:08 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	55	8.6		mg/Kg	1	10/9/2021 12:18:49 PM	62963
Motor Oil Range Organics (MRO)	120	43		mg/Kg	1	10/9/2021 12:18:49 PM	62963
Surr: DNOP	110	70-130		%Rec	1	10/9/2021 12:18:49 PM	62963
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/3/2021 1:48:00 AM	62933
Surr: BFB	101	70-130		%Rec	1	10/3/2021 1:48:00 AM	62933
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	10/3/2021 1:48:00 AM	62933
Toluene	ND	0.047		mg/Kg	1	10/3/2021 1:48:00 AM	62933
Ethylbenzene	ND	0.047		mg/Kg	1	10/3/2021 1:48:00 AM	62933
Xylenes, Total	ND	0.093		mg/Kg	1	10/3/2021 1:48:00 AM	62933
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	10/3/2021 1:48:00 AM	62933

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

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

Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross Federal E6 Battery
Lab ID: 2109G53-018
Matrix: SOIL
Client Sample ID: TP8-3
Collection Date: 9/27/2021 1:00:00 PM
Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	210	60		mg/Kg	20	10/4/2021 7:55:34 PM	62991
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/4/2021 6:56:38 PM	62963
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/4/2021 6:56:38 PM	62963
Surr: DNOP	78.2	70-130		%Rec	1	10/4/2021 6:56:38 PM	62963
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/3/2021 4:05:00 AM	62936
Surr: BFB	88.7	70-130		%Rec	1	10/3/2021 4:05:00 AM	62936
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/3/2021 4:05:00 AM	62936
Toluene	ND	0.047		mg/Kg	1	10/3/2021 4:05:00 AM	62936
Ethylbenzene	ND	0.047		mg/Kg	1	10/3/2021 4:05:00 AM	62936
Xylenes, Total	ND	0.095		mg/Kg	1	10/3/2021 4:05:00 AM	62936
Surr: 4-Bromofluorobenzene	77.2	70-130		%Rec	1	10/3/2021 4:05:00 AM	62936

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

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

Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross Federal E6 Battery
Lab ID: 2109G53-019
Matrix: SOIL
Client Sample ID: TP9-2
Collection Date: 9/27/2021 1:20:00 PM
Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	510	60		mg/Kg	20	10/4/2021 3:15:35 PM	62993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	21	8.4		mg/Kg	1	10/9/2021 3:07:07 PM	62963
Motor Oil Range Organics (MRO)	57	42		mg/Kg	1	10/9/2021 3:07:07 PM	62963
Surr: DNOP	111	70-130		%Rec	1	10/9/2021 3:07:07 PM	62963
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/3/2021 5:04:00 AM	62936
Surr: BFB	95.8	70-130		%Rec	1	10/3/2021 5:04:00 AM	62936
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/3/2021 5:04:00 AM	62936
Toluene	ND	0.047		mg/Kg	1	10/3/2021 5:04:00 AM	62936
Ethylbenzene	ND	0.047		mg/Kg	1	10/3/2021 5:04:00 AM	62936
Xylenes, Total	ND	0.094		mg/Kg	1	10/3/2021 5:04:00 AM	62936
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	10/3/2021 5:04:00 AM	62936

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

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

Analytical Report

Lab Order 2109G53

Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP9-4

Project: Ross Federal E6 Battery

Collection Date: 9/27/2021 1:30:00 PM

Lab ID: 2109G53-020

Matrix: SOIL

Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	150	60		mg/Kg	20	10/4/2021 3:28:00 PM	62993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/4/2021 7:21:12 PM	62963
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/4/2021 7:21:12 PM	62963
Surr: DNOP	79.4	70-130		%Rec	1	10/4/2021 7:21:12 PM	62963
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/3/2021 6:03:00 AM	62936
Surr: BFB	100	70-130		%Rec	5	10/3/2021 6:03:00 AM	62936
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	10/3/2021 6:03:00 AM	62936
Toluene	ND	0.24		mg/Kg	5	10/3/2021 6:03:00 AM	62936
Ethylbenzene	ND	0.24		mg/Kg	5	10/3/2021 6:03:00 AM	62936
Xylenes, Total	ND	0.48		mg/Kg	5	10/3/2021 6:03:00 AM	62936
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	5	10/3/2021 6:03:00 AM	62936

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP10-2
Project: Ross Federal E6 Battery Collection Date: 9/27/2021 1:50:00 PM
Lab ID: 2109G53-021 Matrix: SOIL Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	110	60		mg/Kg	20	10/4/2021 4:30:01 PM	62993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	2800	190		mg/Kg	20	10/4/2021 7:33:28 PM	62963
Motor Oil Range Organics (MRO)	1400	950		mg/Kg	20	10/4/2021 7:33:28 PM	62963
Surr: DNOP	0	70-130	S	%Rec	20	10/4/2021 7:33:28 PM	62963
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	220	98		mg/Kg	20	10/3/2021 6:23:00 AM	62936
Surr: BFB	166	70-130	S	%Rec	20	10/3/2021 6:23:00 AM	62936
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.49	D	mg/Kg	20	10/3/2021 6:23:00 AM	62936
Toluene	ND	0.98	D	mg/Kg	20	10/3/2021 6:23:00 AM	62936
Ethylbenzene	1.4	0.98	D	mg/Kg	20	10/3/2021 6:23:00 AM	62936
Xylenes, Total	5.2	2.0	D	mg/Kg	20	10/3/2021 6:23:00 AM	62936
Surr: 4-Bromofluorobenzene	99.4	70-130	D	%Rec	20	10/3/2021 6:23:00 AM	62936

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

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

Analytical Report
Lab Order 2109G53
Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross Federal E6 Battery
Lab ID: 2109G53-022
Matrix: SOIL
Client Sample ID: TP10-5
Collection Date: 9/27/2021 2:10:00 PM
Received Date: 9/29/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	91	60		mg/Kg	20	10/4/2021 5:07:14 PM	62993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/4/2021 7:45:56 PM	62963
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/4/2021 7:45:56 PM	62963
Surr: DNOP	78.0	70-130		%Rec	1	10/4/2021 7:45:56 PM	62963
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/3/2021 6:42:00 AM	62936
Surr: BFB	94.7	70-130		%Rec	1	10/3/2021 6:42:00 AM	62936
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/3/2021 6:42:00 AM	62936
Toluene	ND	0.048		mg/Kg	1	10/3/2021 6:42:00 AM	62936
Ethylbenzene	ND	0.048		mg/Kg	1	10/3/2021 6:42:00 AM	62936
Xylenes, Total	ND	0.096		mg/Kg	1	10/3/2021 6:42:00 AM	62936
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	10/3/2021 6:42:00 AM	62936

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109G53

14-Oct-21

Client: GHD Midland
Project: Ross Federal E6 Battery

Sample ID: MB-62993	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62993	RunNo: 81768								
Prep Date: 10/4/2021	Analysis Date: 10/4/2021	SeqNo: 2891486 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62993	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62993	RunNo: 81768								
Prep Date: 10/4/2021	Analysis Date: 10/4/2021	SeqNo: 2891487 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Sample ID: MB-62991	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62991	RunNo: 81780								
Prep Date: 10/4/2021	Analysis Date: 10/4/2021	SeqNo: 2892443 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62991	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62991	RunNo: 81780								
Prep Date: 10/4/2021	Analysis Date: 10/4/2021	SeqNo: 2892444 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	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 range due to dilution or matrix

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109G53

14-Oct-21

Client: GHD Midland
Project: Ross Federal E6 Battery

Sample ID: MB-62963	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62963	RunNo: 81785								
Prep Date: 10/1/2021	Analysis Date: 10/4/2021	SeqNo: 2892712 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.8		10.00		77.9	70	130			

Sample ID: LCS-62963	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62963	RunNo: 81785								
Prep Date: 10/1/2021	Analysis Date: 10/4/2021	SeqNo: 2892713 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.8	68.9	135			
Surr: DNOP	4.0		5.000		79.2	70	130			

Sample ID: MB-62962	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62962	RunNo: 81794								
Prep Date: 10/1/2021	Analysis Date: 10/4/2021	SeqNo: 2893104 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		130	70	130			S

Sample ID: LCS-62962	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62962	RunNo: 81794								
Prep Date: 10/1/2021	Analysis Date: 10/4/2021	SeqNo: 2893105 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.2	68.9	135			
Surr: DNOP	5.8		5.000		115	70	130			

Sample ID: 2109G53-017AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP8-2	Batch ID: 62963	RunNo: 81862								
Prep Date: 10/1/2021	Analysis Date: 10/9/2021	SeqNo: 2900848 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	100	10	49.75	55.19	98.7	39.3	155			
Surr: DNOP	5.8		4.975		116	70	130			

Qualifiers:

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

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

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

WO#: 2109G53

14-Oct-21

Client: GHD Midland
Project: Ross Federal E6 Battery

Sample ID: 2109G53-017AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: TP8-2		Batch ID: 62963		RunNo: 81862						
Prep Date: 10/1/2021		Analysis Date: 10/9/2021		SeqNo: 2900849		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	98	9.8	49.07	55.19	86.6	39.3	155	6.57	23.4	
Surr: DNOP	5.6		4.907		114	70	130	0	0	

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109G53

14-Oct-21

Client: GHD Midland
Project: Ross Federal E6 Battery

Sample ID: lcs-62933	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62933	RunNo: 81749								
Prep Date: 9/30/2021	Analysis Date: 10/2/2021	SeqNo: 2890740 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	78.6	131			
Surr: BFB	1100		1000		113	70	130			

Sample ID: lcs-62936	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62936	RunNo: 81749								
Prep Date: 9/30/2021	Analysis Date: 10/3/2021	SeqNo: 2890763 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	78.6	131			
Surr: BFB	1100		1000		110	70	130			

Sample ID: mb-62936	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62936	RunNo: 81749								
Prep Date: 9/30/2021	Analysis Date: 10/3/2021	SeqNo: 2890764 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.2	70	130			

Sample ID: 2109G53-018ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP8-3	Batch ID: 62936	RunNo: 81749								
Prep Date: 9/30/2021	Analysis Date: 10/3/2021	SeqNo: 2890766 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	24.25	0	103	61.3	114			
Surr: BFB	1000		969.9		105	70	130			

Sample ID: 2109G53-018amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP8-3	Batch ID: 62936	RunNo: 81749								
Prep Date: 9/30/2021	Analysis Date: 10/3/2021	SeqNo: 2890767 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.98	0	103	61.3	114	2.45	20	
Surr: BFB	1100		999.0		108	70	130	0	0	

Sample ID: MB-62933	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62933	RunNo: 81749								
Prep Date: 9/30/2021	Analysis Date: 10/2/2021	SeqNo: 2890844 Units: mg/Kg								
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 range due to dilution or matrix

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109G53

14-Oct-21

Client: GHD Midland
Project: Ross Federal E6 Battery

Sample ID: MB-62933	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62933	RunNo: 81749								
Prep Date: 9/30/2021	Analysis Date: 10/2/2021	SeqNo: 2890844 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.7	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109G53

14-Oct-21

Client: GHD Midland
Project: Ross Federal E6 Battery

Sample ID: MB-62933	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62933	RunNo: 81749								
Prep Date: 9/30/2021	Analysis Date: 10/2/2021	SeqNo: 2890796 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.82		1.000		82.4	70	130			

Sample ID: LCS-62933	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62933	RunNo: 81749								
Prep Date: 9/30/2021	Analysis Date: 10/2/2021	SeqNo: 2890797 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.93	0.050	1.000	0	93.2	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.5	80	120			
Surr: 4-Bromofluorobenzene	0.82		1.000		81.9	70	130			

Sample ID: lcs-62936	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62936	RunNo: 81749								
Prep Date: 9/30/2021	Analysis Date: 10/3/2021	SeqNo: 2890820 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.8	80	120			
Toluene	0.93	0.050	1.000	0	93.2	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.7	80	120			
Surr: 4-Bromofluorobenzene	0.81		1.000		81.3	70	130			

Sample ID: mb-62936	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62936	RunNo: 81749								
Prep Date: 9/30/2021	Analysis Date: 10/3/2021	SeqNo: 2890821 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.81		1.000		81.2	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109G53

14-Oct-21

Client: GHD Midland
Project: Ross Federal E6 Battery

Sample ID: 2109G53-019ams		SampType: MS		TestCode: EPA Method 8021B: Volatiles						
Client ID: TP9-2		Batch ID: 62936		RunNo: 81749						
Prep Date: 9/30/2021		Analysis Date: 10/3/2021		SeqNo: 2890824			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	0.9881	0	85.7	80	120			
Toluene	0.87	0.049	0.9881	0	88.4	80	120			
Ethylbenzene	0.90	0.049	0.9881	0	91.3	80	120			
Xylenes, Total	2.7	0.099	2.964	0	91.9	80	120			
Surr: 4-Bromofluorobenzene	0.83		0.9881		84.2	70	130			

Sample ID: 2109G53-019amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: TP9-2		Batch ID: 62936		RunNo: 81749						
Prep Date: 9/30/2021		Analysis Date: 10/3/2021		SeqNo: 2890825		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	0.9911	0	82.6	80	120	3.34	20	
Toluene	0.84	0.050	0.9911	0	84.4	80	120	4.42	20	
Ethylbenzene	0.85	0.050	0.9911	0	86.1	80	120	5.61	20	
Xylenes, Total	2.6	0.099	2.973	0	86.5	80	120	5.80	20	
Surr: 4-Bromofluorobenzene	0.79		0.9911		80.0	70	130	0	0	

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2109G53

RcptNo: 1

Received By: Cheyenne Cason 9/29/2021 7:40:00 AM

Completed By: Sean Livingston 9/29/2021 8:29:09 AM

Reviewed By: KPC 9/29/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: TMC 9/29/21

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good				
2	4.8	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Beckv.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 2 5, 2-0-5.2

Cooler Temp (including CFI): 4.8 - 0 = 4.8

Container Type and #

Preservative Type

HEAL No. 2109653

Date Time Matrix Sample Name

0824 0755 S TP1-S

0800 TP1-2

0810 TP2-2

0820 TP2-4

0830 TP2-6

0845 TP3-5

0850 TP3-2

0900 TP4-2

0910 TP4-4

0920 TP4-6

0935 TP5-5

0940 TP5-2

Date Time Relinquished by:

0824 0800 Zach Comino / J.H.

Date Time Relinquished by:

0824 1900 Alvin

Received by:

Via: Alvin

Date Time

0824 0800

Date Time Relinquished by:

0824 1900 Alvin

Received by:

Via: one carrier 9/29/14 0740

Date Time

0824 0800

Turn-Around Time:

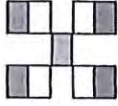
☒ Standard ☐ Rush

Project Name:

Ross Eleni EG Battery

Project #:

12563388



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTX / MTBE / TMB's (8021)	TPH: 8015D (GRO / DRO / MRO)	8081 Pesticides / 8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	6 Coliform (300)
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001	002	003	004	005	006	007	008	009	010	011	012
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Remarks: Please email: Chase_Settle@eogresources.com;
Tom.Larson@ghd.com; Zach.Comino@ghd.com
Matthew.Laughlin@ghd.com: Along with Becky Haskell
listed above.

Direct Bill to EOG Chase Settle

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



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

October 14, 2021

Becky Haskell
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX

RE: Ross Federal EG Battery

OrderNo.: 2109H20

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 9 sample(s) on 9/30/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2109H20
Date Reported: 10/14/2021

CLIENT: GHD Midland
Project: Ross Federal EG Battery
Lab ID: 2109H20-001
Matrix: SOIL
Client Sample ID: TP9-6
Collection Date: 9/28/2021 7:15:00 AM
Received Date: 9/30/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	10/4/2021 12:19:53 PM	62990
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/4/2021 10:45:39 AM	62965
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/4/2021 10:45:39 AM	62965
Surr: DNOP	86.2	70-130		%Rec	1	10/4/2021 10:45:39 AM	62965
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/4/2021 5:42:00 PM	62956
Surr: BFB	99.9	70-130		%Rec	1	10/4/2021 5:42:00 PM	62956
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	10/4/2021 5:42:00 PM	62956
Toluene	ND	0.050		mg/Kg	1	10/4/2021 5:42:00 PM	62956
Ethylbenzene	ND	0.050		mg/Kg	1	10/4/2021 5:42:00 PM	62956
Xylenes, Total	ND	0.10		mg/Kg	1	10/4/2021 5:42:00 PM	62956
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	10/4/2021 5:42:00 PM	62956

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2109H20
Date Reported: 10/14/2021

CLIENT: GHD Midland
Project: Ross Federal EG Battery
Lab ID: 2109H20-002
Matrix: SOIL
Client Sample ID: TP11-2
Collection Date: 9/28/2021 7:50:00 AM
Received Date: 9/30/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	10/4/2021 12:32:17 PM	62990
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/4/2021 10:58:02 AM	62965
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/4/2021 10:58:02 AM	62965
Surr: DNOP	89.2	70-130		%Rec	1	10/4/2021 10:58:02 AM	62965
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2021 6:02:00 PM	62956
Surr: BFB	96.5	70-130		%Rec	1	10/4/2021 6:02:00 PM	62956
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	10/4/2021 6:02:00 PM	62956
Toluene	ND	0.049		mg/Kg	1	10/4/2021 6:02:00 PM	62956
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2021 6:02:00 PM	62956
Xylenes, Total	ND	0.098		mg/Kg	1	10/4/2021 6:02:00 PM	62956
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	10/4/2021 6:02:00 PM	62956

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2109H20
Date Reported: 10/14/2021

CLIENT: GHD Midland
Project: Ross Federal EG Battery
Lab ID: 2109H20-003
Matrix: SOIL
Client Sample ID: TP11-4
Collection Date: 9/28/2021 8:05:00 AM
Received Date: 9/30/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	130	60		mg/Kg	20	10/4/2021 12:46:41 PM	62990
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	10/4/2021 11:10:14 AM	62965
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/4/2021 11:10:14 AM	62965
Surr: DNOP	85.1	70-130		%Rec	1	10/4/2021 11:10:14 AM	62965
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2021 6:21:00 PM	62956
Surr: BFB	103	70-130		%Rec	1	10/4/2021 6:21:00 PM	62956
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	10/4/2021 6:21:00 PM	62956
Toluene	ND	0.049		mg/Kg	1	10/4/2021 6:21:00 PM	62956
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2021 6:21:00 PM	62956
Xylenes, Total	ND	0.098		mg/Kg	1	10/4/2021 6:21:00 PM	62956
Surr: 4-Bromofluorobenzene	87.3	70-130		%Rec	1	10/4/2021 6:21:00 PM	62956

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

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

Analytical Report

Lab Order 2109H20

Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP12-2

Project: Ross Federal EG Battery

Collection Date: 9/28/2021 8:40:00 AM

Lab ID: 2109H20-004

Matrix: SOIL

Received Date: 9/30/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1200	60		mg/Kg	20	10/4/2021 12:59:06 PM	62990
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/4/2021 11:22:26 AM	62965
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/4/2021 11:22:26 AM	62965
Surr: DNOP	96.6	70-130		%Rec	1	10/4/2021 11:22:26 AM	62965
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 6:41:00 PM	62956
Surr: BFB	102	70-130		%Rec	1	10/4/2021 6:41:00 PM	62956
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	10/4/2021 6:41:00 PM	62956
Toluene	ND	0.047		mg/Kg	1	10/4/2021 6:41:00 PM	62956
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 6:41:00 PM	62956
Xylenes, Total	ND	0.094		mg/Kg	1	10/4/2021 6:41:00 PM	62956
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	10/4/2021 6:41:00 PM	62956

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2109H20
Date Reported: 10/14/2021

CLIENT: GHD Midland
Project: Ross Federal EG Battery
Lab ID: 2109H20-005
Matrix: SOIL
Client Sample ID: TP12-4
Collection Date: 9/28/2021 9:00:00 AM
Received Date: 9/30/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2200	60		mg/Kg	20	10/4/2021 1:36:19 PM	62990
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/4/2021 11:34:42 AM	62965
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/4/2021 11:34:42 AM	62965
Surr: DNOP	83.7	70-130		%Rec	1	10/4/2021 11:34:42 AM	62965
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2021 7:01:00 PM	62956
Surr: BFB	105	70-130		%Rec	1	10/4/2021 7:01:00 PM	62956
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	10/4/2021 7:01:00 PM	62956
Toluene	ND	0.049		mg/Kg	1	10/4/2021 7:01:00 PM	62956
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2021 7:01:00 PM	62956
Xylenes, Total	ND	0.098		mg/Kg	1	10/4/2021 7:01:00 PM	62956
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	10/4/2021 7:01:00 PM	62956

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

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

Analytical Report
 Lab Order 2109H20
 Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: TP12-6
 Project: Ross Federal EG Battery Collection Date: 9/28/2021 9:15:00 AM
 Lab ID: 2109H20-006 Matrix: SOIL Received Date: 9/30/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1400	60		mg/Kg	20	10/4/2021 1:48:44 PM	62990
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/4/2021 11:46:51 AM	62965
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/4/2021 11:46:51 AM	62965
Surr: DNOP	90.9	70-130		%Rec	1	10/4/2021 11:46:51 AM	62965
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 7:20:00 PM	62956
Surr: BFB	102	70-130		%Rec	1	10/4/2021 7:20:00 PM	62956
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	10/4/2021 7:20:00 PM	62956
Toluene	ND	0.047		mg/Kg	1	10/4/2021 7:20:00 PM	62956
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 7:20:00 PM	62956
Xylenes, Total	ND	0.094		mg/Kg	1	10/4/2021 7:20:00 PM	62956
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	10/4/2021 7:20:00 PM	62956

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

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2109H20
Date Reported: 10/14/2021

CLIENT: GHD Midland
Project: Ross Federal EG Battery
Lab ID: 2109H20-007
Matrix: SOIL
Client Sample ID: TP12-8
Collection Date: 9/28/2021 9:20:00 AM
Received Date: 9/30/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	190	60		mg/Kg	20	10/4/2021 2:01:08 PM	62990
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	10/4/2021 11:59:08 AM	62965
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	10/4/2021 11:59:08 AM	62965
Surr: DNOP	87.2	70-130		%Rec	1	10/4/2021 11:59:08 AM	62965
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/4/2021 7:40:00 PM	62956
Surr: BFB	103	70-130		%Rec	1	10/4/2021 7:40:00 PM	62956
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	10/4/2021 7:40:00 PM	62956
Toluene	ND	0.050		mg/Kg	1	10/4/2021 7:40:00 PM	62956
Ethylbenzene	ND	0.050		mg/Kg	1	10/4/2021 7:40:00 PM	62956
Xylenes, Total	ND	0.10		mg/Kg	1	10/4/2021 7:40:00 PM	62956
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	10/4/2021 7:40:00 PM	62956

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

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

Analytical Report
Lab Order 2109H20
Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross Federal EG Battery
Lab ID: 2109H20-008
Matrix: SOIL
Client Sample ID: TP13-S
Collection Date: 9/28/2021 9:40:00 AM
Received Date: 9/30/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	10/4/2021 2:13:33 PM	62990
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	37	10		mg/Kg	1	10/9/2021 3:31:15 PM	62965
Motor Oil Range Organics (MRO)	150	50		mg/Kg	1	10/9/2021 3:31:15 PM	62965
Surr: DNOP	122	70-130		%Rec	1	10/9/2021 3:31:15 PM	62965
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 8:00:00 PM	62956
Surr: BFB	108	70-130		%Rec	1	10/4/2021 8:00:00 PM	62956
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	10/4/2021 8:00:00 PM	62956
Toluene	ND	0.048		mg/Kg	1	10/4/2021 8:00:00 PM	62956
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 8:00:00 PM	62956
Xylenes, Total	ND	0.096		mg/Kg	1	10/4/2021 8:00:00 PM	62956
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	10/4/2021 8:00:00 PM	62956

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

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

Analytical Report
Lab Order 2109H20
Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross Federal EG Battery
Lab ID: 2109H20-009
Matrix: SOIL
Client Sample ID: TP13-2
Collection Date: 9/28/2021 9:50:00 AM
Received Date: 9/30/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	89	60		mg/Kg	20	10/4/2021 2:25:57 PM	62990
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/4/2021 12:23:31 PM	62965
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/4/2021 12:23:31 PM	62965
Surr: DNOP	81.0	70-130		%Rec	1	10/4/2021 12:23:31 PM	62965
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 8:19:00 PM	62956
Surr: BFB	99.9	70-130		%Rec	1	10/4/2021 8:19:00 PM	62956
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	10/4/2021 8:19:00 PM	62956
Toluene	ND	0.047		mg/Kg	1	10/4/2021 8:19:00 PM	62956
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 8:19:00 PM	62956
Xylenes, Total	ND	0.094		mg/Kg	1	10/4/2021 8:19:00 PM	62956
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	10/4/2021 8:19:00 PM	62956

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H20

14-Oct-21

Client: GHD Midland

Project: Ross Federal EG Battery

Sample ID: MB-62990	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62990	RunNo: 81768								
Prep Date: 10/4/2021	Analysis Date: 10/4/2021	SeqNo: 2891456			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62990	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62990	RunNo: 81768								
Prep Date: 10/4/2021	Analysis Date: 10/4/2021	SeqNo: 2891457			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H20

14-Oct-21

Client: GHD Midland
Project: Ross Federal EG Battery

Sample ID: MB-62965	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62965	RunNo: 81785								
Prep Date: 10/1/2021	Analysis Date: 10/4/2021	SeqNo: 2892635 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		86.2	70	130			

Sample ID: LCS-62965	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62965	RunNo: 81785								
Prep Date: 10/1/2021	Analysis Date: 10/4/2021	SeqNo: 2892636 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.6	68.9	135			
Surr: DNOP	4.5		5.000		90.5	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 range due to dilution or matrix

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H20

14-Oct-21

Client: GHD Midland

Project: Ross Federal EG Battery

Sample ID: mb-62956	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62956	RunNo: 81772								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891808 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: lcs-62956	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62956	RunNo: 81772								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891810 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	78.6	131			
Surr: BFB	1200		1000		118	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H20

14-Oct-21

Client: GHD Midland

Project: Ross Federal EG Battery

Sample ID: mb-62956	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62956	RunNo: 81772								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891854 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		88.5	70	130			

Sample ID: lcs-62956	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62956	RunNo: 81772								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891856 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.5	80	120			
Toluene	1.0	0.050	1.000	0	99.9	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.5	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.9		1.000		186	70	130			S

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2109H20

RcptNo: 1

Received By: Cheyenne Cason 9/30/2021 7:40:00 AM

Completed By: Isalah Ortiz 9/30/2021 8:37:43 AM

Reviewed By: KKA 9/30/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: JR / JB 9-30-21

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good	Not Present			



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

November 24, 2021

Becky Haskell
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX:

RE: Ross Federal EG Battery

OrderNo.: 2111810

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/17/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order 2111810
Date Reported: 11/24/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross Federal EG Battery
Lab ID: 2111810-001
Matrix: SOIL
Client Sample ID: BH-1
Collection Date: 11/15/2021 10:45:00 AM
Received Date: 11/17/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	720	60		mg/Kg	20	11/19/2021 4:16:50 AM	64034
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	97	9.1		mg/Kg	1	11/19/2021 5:26:18 PM	64024
Motor Oil Range Organics (MRO)	84	46		mg/Kg	1	11/19/2021 5:26:18 PM	64024
Surr: DNOP	91.2	70-130		%Rec	1	11/19/2021 5:26:18 PM	64024
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/18/2021 6:33:22 PM	63995
Surr: BFB	95.3	70-130		%Rec	1	11/18/2021 6:33:22 PM	63995
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/18/2021 6:33:22 PM	63995
Toluene	ND	0.048		mg/Kg	1	11/18/2021 6:33:22 PM	63995
Ethylbenzene	ND	0.048		mg/Kg	1	11/18/2021 6:33:22 PM	63995
Xylenes, Total	ND	0.095		mg/Kg	1	11/18/2021 6:33:22 PM	63995
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	11/18/2021 6:33:22 PM	63995

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2111810
Date Reported: 11/24/2021

CLIENT: GHD Midland
Project: Ross Federal EG Battery
Lab ID: 2111810-002
Matrix: SOIL
Client Sample ID: BH-2
Collection Date: 11/15/2021 10:55:00 AM
Received Date: 11/17/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1400	60		mg/Kg	20	11/19/2021 4:29:11 AM	64034
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	57	9.8		mg/Kg	1	11/19/2021 5:50:14 PM	64024
Motor Oil Range Organics (MRO)	85	49		mg/Kg	1	11/19/2021 5:50:14 PM	64024
Surr: DNOP	93.3	70-130		%Rec	1	11/19/2021 5:50:14 PM	64024
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/18/2021 7:43:50 PM	63995
Surr: BFB	96.4	70-130		%Rec	1	11/18/2021 7:43:50 PM	63995
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/18/2021 7:43:50 PM	63995
Toluene	ND	0.048		mg/Kg	1	11/18/2021 7:43:50 PM	63995
Ethylbenzene	ND	0.048		mg/Kg	1	11/18/2021 7:43:50 PM	63995
Xylenes, Total	ND	0.097		mg/Kg	1	11/18/2021 7:43:50 PM	63995
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	11/18/2021 7:43:50 PM	63995

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

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

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

WO#: 2111810

24-Nov-21

Client: GHD Midland
Project: Ross Federal EG Battery

Sample ID: MB-64034	SampType: mbk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64034	RunNo: 82972								
Prep Date: 11/18/2021	Analysis Date: 11/19/2021	SeqNo: 2946015 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64034	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64034	RunNo: 82972								
Prep Date: 11/18/2021	Analysis Date: 11/19/2021	SeqNo: 2946016 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	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 range due to dilution or matrix interference

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111810

24-Nov-21

Client: GHD Midland
Project: Ross Federal EG Battery

Sample ID: MB-64024	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64024	RunNo: 82976								
Prep Date: 11/18/2021	Analysis Date: 11/19/2021	SeqNo: 2948754 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.0	70	130			

Sample ID: LCS-64024	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64024	RunNo: 82976								
Prep Date: 11/18/2021	Analysis Date: 11/19/2021	SeqNo: 2948757 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.1	68.9	135			
Surr: DNOP	4.7		5.000		93.2	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111810

24-Nov-21

Client: GHD Midland
Project: Ross Federal EG Battery

Sample ID: mb-63995	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 63995	RunNo: 82965								
Prep Date: 11/17/2021	Analysis Date: 11/18/2021	SeqNo: 2945650 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	70	130			

Sample ID: lcs-63995	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 63995	RunNo: 82965								
Prep Date: 11/17/2021	Analysis Date: 11/18/2021	SeqNo: 2945651 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.8	78.6	131			
Surr: BFB	1100		1000		111	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111810

24-Nov-21

Client: GHD Midland
Project: Ross Federal EG Battery

Sample ID: mb-63995	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 63995			RunNo: 82965						
Prep Date: 11/17/2021	Analysis Date: 11/18/2021			SeqNo: 2945717			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: LCS-63995	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 63995			RunNo: 82965						
Prep Date: 11/17/2021	Analysis Date: 11/18/2021			SeqNo: 2945718			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	80	120			
Toluene	0.91	0.050	1.000	0	90.5	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: 2111810-001ams		SampType: MS		TestCode: EPA Method 8021B: Volatiles						
Client ID: BH-1		Batch ID: 63995		RunNo: 82965						
Prep Date: 11/17/2021		Analysis Date: 11/18/2021		SeqNo: 2945721			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9470	0	92.3	80	120			
Toluene	0.90	0.047	0.9470	0	94.6	80	120			
Ethylbenzene	0.92	0.047	0.9470	0	97.4	80	120			
Xylenes, Total	2.7	0.095	2.841	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	0.98		0.9470		103	70	130			

Sample ID: 2111810-001amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: BH-1		Batch ID: 63995		RunNo: 82965						
Prep Date: 11/17/2021		Analysis Date: 11/18/2021		SeqNo: 2945722		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.024	0.9479	0	81.0	80	120	12.9	20	
Toluene	0.78	0.047	0.9479	0	82.6	80	120	13.4	20	
Ethylbenzene	0.80	0.047	0.9479	0	84.4	80	120	14.2	20	
Xylenes, Total	2.4	0.095	2.844	0	82.9	80	120	14.3	20	
Surr: 4-Bromofluorobenzene	0.98		0.9479		103	70	130	0	0	

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2111810

RcptNo: 1

Received By: Sean Livingston 11/17/2021 8:00:00 AM

Completed By: Tracy Casarrubias 11/17/2021 8:44:39 AM

Reviewed By: *one* 11/17/21

S. Livingston

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 $>0^{\circ}\text{C}$ 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: *JR 11/17/21*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Not Present			



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

December 06, 2021

Becky Haskell
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX:

RE: Ross EG Federal 3 Battery

OrderNo.: 2111B19

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 14 sample(s) on 11/23/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2111B19

Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-3

Project: Ross EG Federal 3 Battery

Collection Date: 11/19/2021 10:15:00 AM

Lab ID: 2111B19-001

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	3300	150		mg/Kg	50	12/2/2021 1:01:28 AM	64229
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	600	97		mg/Kg	10	11/29/2021 6:45:54 PM	64165
Motor Oil Range Organics (MRO)	610	490		mg/Kg	10	11/29/2021 6:45:54 PM	64165
Surr: DNOP	0	70-130	S	%Rec	10	11/29/2021 6:45:54 PM	64165
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/30/2021 4:37:00 AM	64156
Surr: BFB	97.2	70-130		%Rec	1	11/30/2021 4:37:00 AM	64156
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/30/2021 4:37:00 AM	64156
Toluene	ND	0.049		mg/Kg	1	11/30/2021 4:37:00 AM	64156
Ethylbenzene	ND	0.049		mg/Kg	1	11/30/2021 4:37:00 AM	64156
Xylenes, Total	ND	0.097		mg/Kg	1	11/30/2021 4:37:00 AM	64156
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	11/30/2021 4:37:00 AM	64156

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2111B19

Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-4

Project: Ross EG Federal 3 Battery

Collection Date: 11/19/2021 10:20:00 AM

Lab ID: 2111B19-002

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	5100	300		mg/Kg	100	12/2/2021 1:38:30 AM	64229
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	200	9.8		mg/Kg	1	11/30/2021 2:52:45 PM	64165
Motor Oil Range Organics (MRO)	190	49		mg/Kg	1	11/30/2021 2:52:45 PM	64165
Surr: DNOP	129	70-130		%Rec	1	11/30/2021 2:52:45 PM	64165
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	11/30/2021 4:57:00 AM	64156
Surr: BFB	94.6	70-130		%Rec	5	11/30/2021 4:57:00 AM	64156
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	11/30/2021 4:57:00 AM	64156
Toluene	ND	0.24		mg/Kg	5	11/30/2021 4:57:00 AM	64156
Ethylbenzene	ND	0.24		mg/Kg	5	11/30/2021 4:57:00 AM	64156
Xylenes, Total	ND	0.48		mg/Kg	5	11/30/2021 4:57:00 AM	64156
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	5	11/30/2021 4:57:00 AM	64156

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

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

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Analytical Report

Lab Order 2111B19

Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-5

Project: Ross EG Federal 3 Battery

Collection Date: 11/19/2021 10:25:00 AM

Lab ID: 2111B19-003

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2400	60		mg/Kg	20	12/1/2021 1:21:02 AM	64229
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	44	9.5		mg/Kg	1	11/29/2021 7:07:17 PM	64165
Motor Oil Range Organics (MRO)	64	47		mg/Kg	1	11/29/2021 7:07:17 PM	64165
Surr: DNOP	108	70-130		%Rec	1	11/29/2021 7:07:17 PM	64165
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/30/2021 5:17:00 AM	64156
Surr: BFB	95.2	70-130		%Rec	1	11/30/2021 5:17:00 AM	64156
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/30/2021 5:17:00 AM	64156
Toluene	ND	0.049		mg/Kg	1	11/30/2021 5:17:00 AM	64156
Ethylbenzene	ND	0.049		mg/Kg	1	11/30/2021 5:17:00 AM	64156
Xylenes, Total	ND	0.097		mg/Kg	1	11/30/2021 5:17:00 AM	64156
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	1	11/30/2021 5:17:00 AM	64156

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

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

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

Page 3 of 23

Analytical Report

Lab Order 2111B19

Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-6

Project: Ross EG Federal 3 Battery

Collection Date: 11/19/2021 10:30:00 AM

Lab ID: 2111B19-004

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	510	60		mg/Kg	20	12/1/2021 1:58:17 AM	64229
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/29/2021 7:17:55 PM	64165
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/29/2021 7:17:55 PM	64165
Surr: DNOP	94.0	70-130		%Rec	1	11/29/2021 7:17:55 PM	64165
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/30/2021 5:36:00 AM	64156
Surr: BFB	95.7	70-130		%Rec	1	11/30/2021 5:36:00 AM	64156
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	11/30/2021 5:36:00 AM	64156
Toluene	ND	0.047		mg/Kg	1	11/30/2021 5:36:00 AM	64156
Ethylbenzene	ND	0.047		mg/Kg	1	11/30/2021 5:36:00 AM	64156
Xylenes, Total	ND	0.093		mg/Kg	1	11/30/2021 5:36:00 AM	64156
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	11/30/2021 5:36:00 AM	64156

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

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

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Analytical Report

Lab Order 2111B19

Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-7

Project: Ross EG Federal 3 Battery

Collection Date: 11/19/2021 10:35:00 AM

Lab ID: 2111B19-005

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1400	60		mg/Kg	20	12/1/2021 2:10:41 AM	64229
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	16	9.6		mg/Kg	1	11/29/2021 7:28:32 PM	64165
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/29/2021 7:28:32 PM	64165
Surr: DNOP	103	70-130		%Rec	1	11/29/2021 7:28:32 PM	64165
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/30/2021 5:56:00 AM	64156
Surr: BFB	98.5	70-130		%Rec	1	11/30/2021 5:56:00 AM	64156
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	11/30/2021 5:56:00 AM	64156
Toluene	ND	0.046		mg/Kg	1	11/30/2021 5:56:00 AM	64156
Ethylbenzene	ND	0.046		mg/Kg	1	11/30/2021 5:56:00 AM	64156
Xylenes, Total	ND	0.092		mg/Kg	1	11/30/2021 5:56:00 AM	64156
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	11/30/2021 5:56:00 AM	64156

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

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

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Analytical Report

Lab Order 2111B19

Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-8

Project: Ross EG Federal 3 Battery

Collection Date: 11/19/2021 10:40:00 AM

Lab ID: 2111B19-006

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	240	59		mg/Kg	20	12/1/2021 2:23:06 AM	64229
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	11	9.5		mg/Kg	1	12/1/2021 4:15:20 AM	64181
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/1/2021 4:15:20 AM	64181
Surr: DNOP	104	70-130		%Rec	1	12/1/2021 4:15:20 AM	64181
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/2/2021 4:58:00 PM	64162
Surr: BFB	101	70-130		%Rec	1	12/2/2021 4:58:00 PM	64162
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	11/30/2021 5:32:00 PM	64162
Toluene	ND	0.047		mg/Kg	1	11/30/2021 5:32:00 PM	64162
Ethylbenzene	ND	0.047		mg/Kg	1	11/30/2021 5:32:00 PM	64162
Xylenes, Total	ND	0.093		mg/Kg	1	11/30/2021 5:32:00 PM	64162
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	11/30/2021 5:32:00 PM	64162

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2111B19

Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-9

Project: Ross EG Federal 3 Battery

Collection Date: 11/19/2021 10:45:00 AM

Lab ID: 2111B19-007

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	130	59		mg/Kg	20	12/1/2021 2:35:31 AM	64229
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	16	9.5		mg/Kg	1	12/1/2021 4:25:48 AM	64181
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/1/2021 4:25:48 AM	64181
Surr: DNOP	129	70-130		%Rec	1	12/1/2021 4:25:48 AM	64181
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/2/2021 5:57:00 PM	64162
Surr: BFB	87.8	70-130		%Rec	1	12/2/2021 5:57:00 PM	64162
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/30/2021 6:31:00 PM	64162
Toluene	ND	0.048		mg/Kg	1	11/30/2021 6:31:00 PM	64162
Ethylbenzene	ND	0.048		mg/Kg	1	11/30/2021 6:31:00 PM	64162
Xylenes, Total	ND	0.095		mg/Kg	1	11/30/2021 6:31:00 PM	64162
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	11/30/2021 6:31:00 PM	64162

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

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

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

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Analytical Report

Lab Order 2111B19

Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-10

Project: Ross EG Federal 3 Battery

Collection Date: 11/19/2021 11:00:00 AM

Lab ID: 2111B19-008

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	260	60		mg/Kg	20	12/1/2021 2:47:56 AM	64229
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/1/2021 4:36:16 AM	64181
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/1/2021 4:36:16 AM	64181
Surr: DNOP	110	70-130		%Rec	1	12/1/2021 4:36:16 AM	64181
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/30/2021 8:09:00 PM	64162
Surr: BFB	92.8	70-130		%Rec	1	11/30/2021 8:09:00 PM	64162
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	11/30/2021 8:09:00 PM	64162
Toluene	ND	0.047		mg/Kg	1	11/30/2021 8:09:00 PM	64162
Ethylbenzene	ND	0.047		mg/Kg	1	11/30/2021 8:09:00 PM	64162
Xylenes, Total	ND	0.093		mg/Kg	1	11/30/2021 8:09:00 PM	64162
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	11/30/2021 8:09:00 PM	64162

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

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

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

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Analytical Report
Lab Order 2111B19
Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross EG Federal 3 Battery
Lab ID: 2111B19-009

Matrix: SOIL

Client Sample ID: BH-11
Collection Date: 11/19/2021 11:05:00 AM
Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	430	60		mg/Kg	20	12/1/2021 3:00:21 AM	64229
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/1/2021 4:46:43 AM	64181
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/1/2021 4:46:43 AM	64181
Surr: DNOP	83.8	70-130		%Rec	1	12/1/2021 4:46:43 AM	64181
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/30/2021 8:29:00 PM	64162
Surr: BFB	101	70-130		%Rec	1	11/30/2021 8:29:00 PM	64162
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/30/2021 8:29:00 PM	64162
Toluene	ND	0.048		mg/Kg	1	11/30/2021 8:29:00 PM	64162
Ethylbenzene	ND	0.048		mg/Kg	1	11/30/2021 8:29:00 PM	64162
Xylenes, Total	ND	0.096		mg/Kg	1	11/30/2021 8:29:00 PM	64162
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	11/30/2021 8:29:00 PM	64162

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

Qualifiers:

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

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

Analytical Report

Lab Order 2111B19

Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-12

Project: Ross EG Federal 3 Battery

Collection Date: 11/19/2021 11:10:00 AM

Lab ID: 2111B19-010

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2300	150		mg/Kg	50	12/2/2021 1:50:51 AM	64229
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	330	46		mg/Kg	5	12/1/2021 3:56:55 PM	64181
Motor Oil Range Organics (MRO)	260	230		mg/Kg	5	12/1/2021 3:56:55 PM	64181
Surr: DNOP	108	70-130		%Rec	5	12/1/2021 3:56:55 PM	64181
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/30/2021 8:48:00 PM	64162
Surr: BFB	101	70-130		%Rec	1	11/30/2021 8:48:00 PM	64162
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	11/30/2021 8:48:00 PM	64162
Toluene	ND	0.050		mg/Kg	1	11/30/2021 8:48:00 PM	64162
Ethylbenzene	ND	0.050		mg/Kg	1	11/30/2021 8:48:00 PM	64162
Xylenes, Total	ND	0.099		mg/Kg	1	11/30/2021 8:48:00 PM	64162
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	11/30/2021 8:48:00 PM	64162

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

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

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Analytical Report

Lab Order 2111B19

Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-13

Project: Ross EG Federal 3 Battery

Collection Date: 11/19/2021 11:15:00 AM

Lab ID: 2111B19-011

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	510	60		mg/Kg	20	12/1/2021 3:25:10 AM	64229
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	54	9.8		mg/Kg	1	11/30/2021 2:19:56 PM	64182
Motor Oil Range Organics (MRO)	64	49		mg/Kg	1	11/30/2021 2:19:56 PM	64182
Surr: DNOP	89.2	70-130		%Rec	1	11/30/2021 2:19:56 PM	64182
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/30/2021 9:08:00 PM	64162
Surr: BFB	92.7	70-130		%Rec	1	11/30/2021 9:08:00 PM	64162
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	11/30/2021 9:08:00 PM	64162
Toluene	ND	0.047		mg/Kg	1	11/30/2021 9:08:00 PM	64162
Ethylbenzene	ND	0.047		mg/Kg	1	11/30/2021 9:08:00 PM	64162
Xylenes, Total	ND	0.093		mg/Kg	1	11/30/2021 9:08:00 PM	64162
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	11/30/2021 9:08:00 PM	64162

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

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

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

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Analytical Report
 Lab Order 2111B19
 Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-14

Project: Ross EG Federal 3 Battery

Collection Date: 11/19/2021 11:20:00 AM

Lab ID: 2111B19-012

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1000	60		mg/Kg	20	12/1/2021 3:37:35 AM	64229
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	100	9.5		mg/Kg	1	11/30/2021 2:44:14 PM	64182
Motor Oil Range Organics (MRO)	160	47		mg/Kg	1	11/30/2021 2:44:14 PM	64182
Surr: DNOP	85.1	70-130		%Rec	1	11/30/2021 2:44:14 PM	64182
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/30/2021 9:27:00 PM	64162
Surr: BFB	94.3	70-130		%Rec	1	11/30/2021 9:27:00 PM	64162
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/30/2021 9:27:00 PM	64162
Toluene	ND	0.048		mg/Kg	1	11/30/2021 9:27:00 PM	64162
Ethylbenzene	ND	0.048		mg/Kg	1	11/30/2021 9:27:00 PM	64162
Xylenes, Total	ND	0.095		mg/Kg	1	11/30/2021 9:27:00 PM	64162
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	11/30/2021 9:27:00 PM	64162

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2111B19

Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-1

Project: Ross EG Federal 3 Battery

Collection Date: 11/19/2021 11:30:00 AM

Lab ID: 2111B19-013

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	64	60		mg/Kg	20	12/1/2021 3:50:00 AM	64229
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/30/2021 3:08:22 PM	64182
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/30/2021 3:08:22 PM	64182
Surr: DNOP	83.7	70-130		%Rec	1	11/30/2021 3:08:22 PM	64182
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/30/2021 9:47:00 PM	64162
Surr: BFB	94.4	70-130		%Rec	1	11/30/2021 9:47:00 PM	64162
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/30/2021 9:47:00 PM	64162
Toluene	ND	0.047		mg/Kg	1	11/30/2021 9:47:00 PM	64162
Ethylbenzene	ND	0.047		mg/Kg	1	11/30/2021 9:47:00 PM	64162
Xylenes, Total	ND	0.095		mg/Kg	1	11/30/2021 9:47:00 PM	64162
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	11/30/2021 9:47:00 PM	64162

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

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

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Analytical Report

Lab Order 2111B19

Date Reported: 12/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-2

Project: Ross EG Federal 3 Battery

Collection Date: 11/19/2021 11:45:00 AM

Lab ID: 2111B19-014

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	290	60		mg/Kg	20	12/1/2021 11:08:36 AM	64243
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/30/2021 3:32:45 PM	64182
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/30/2021 3:32:45 PM	64182
Surr: DNOP	83.3	70-130		%Rec	1	11/30/2021 3:32:45 PM	64182
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/30/2021 10:07:00 PM	64162
Surr: BFB	98.3	70-130		%Rec	1	11/30/2021 10:07:00 PM	64162
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/30/2021 10:07:00 PM	64162
Toluene	ND	0.048		mg/Kg	1	11/30/2021 10:07:00 PM	64162
Ethylbenzene	ND	0.048		mg/Kg	1	11/30/2021 10:07:00 PM	64162
Xylenes, Total	ND	0.096		mg/Kg	1	11/30/2021 10:07:00 PM	64162
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	11/30/2021 10:07:00 PM	64162

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

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111B19

06-Dec-21

Client: GHD Midland
Project: Ross EG Federal 3 Battery

Sample ID: MB-64229	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64229	RunNo: 83169								
Prep Date: 11/30/2021	Analysis Date: 11/30/2021	SeqNo: 2955827 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64229	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64229	RunNo: 83169								
Prep Date: 11/30/2021	Analysis Date: 11/30/2021	SeqNo: 2955828 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.4	90	110			

Sample ID: MB-64243	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64243	RunNo: 83213								
Prep Date: 12/1/2021	Analysis Date: 12/1/2021	SeqNo: 2957107 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64243	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64243	RunNo: 83213								
Prep Date: 12/1/2021	Analysis Date: 12/1/2021	SeqNo: 2957108 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

Sample ID: 2111B19-014AMS	SampType: ms	TestCode: EPA Method 300.0: Anions								
Client ID: SW-2	Batch ID: 64243	RunNo: 83213								
Prep Date: 12/1/2021	Analysis Date: 12/1/2021	SeqNo: 2957110 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	300	60	30.00	287.8	46.1	57.5	166			S

Sample ID: 2111B19-014AMSD	SampType: msd	TestCode: EPA Method 300.0: Anions								
Client ID: SW-2	Batch ID: 64243	RunNo: 83213								
Prep Date: 12/1/2021	Analysis Date: 12/1/2021	SeqNo: 2957111 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	320	60	30.00	287.8	100	57.5	166	5.26	20	

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111B19

06-Dec-21

Client: GHD Midland

Project: Ross EG Federal 3 Battery

Sample ID: MB-64165	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64165	RunNo: 83128								
Prep Date: 11/24/2021	Analysis Date: 11/29/2021	SeqNo: 2953508			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.4	70	130			

Sample ID: LCS-64165	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64165	RunNo: 83128								
Prep Date: 11/24/2021	Analysis Date: 11/29/2021	SeqNo: 2953509			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	48	10	50.00	0	96.1	68.9	135			
Surr: DNOP	4.6		5.000		92.1	70	130			

Sample ID: LCS-64182	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64182	RunNo: 83166								
Prep Date: 11/29/2021	Analysis Date: 11/30/2021	SeqNo: 2954832			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	44	10	50.00	0	87.7	68.9	135			
Surr: DNOP	4.4		5.000		88.6	70	130			

Sample ID: MB-64182	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64182	RunNo: 83166								
Prep Date: 11/29/2021	Analysis Date: 11/30/2021	SeqNo: 2954833			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.4	70	130			

Sample ID: 2111B19-011AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-13	Batch ID: 64182	RunNo: 83166								
Prep Date: 11/29/2021	Analysis Date: 11/30/2021	SeqNo: 2955364 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	97	9.9	49.41	53.88	87.1	39.3	155			
Surr: DNOP	4.0		4.941		80.7	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 range due to dilution or matrix interference

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111B19

06-Dec-21

Client: GHD Midland
Project: Ross EG Federal 3 Battery

Sample ID: 2111B19-011AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-13	Batch ID: 64182	RunNo: 83166								
Prep Date: 11/29/2021	Analysis Date: 11/30/2021	SeqNo: 2955365 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	83	9.3	46.60	53.88	63.5	39.3	155	14.9	23.4	
Surr: DNOP	3.7		4.660		79.0	70	130	0	0	

Sample ID: LCS-64181	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64181	RunNo: 83165								
Prep Date: 11/29/2021	Analysis Date: 12/1/2021	SeqNo: 2956174 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.3	68.9	135			
Surr: DNOP	5.2		5.000		103	70	130			

Sample ID: MB-64181	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64181	RunNo: 83165								
Prep Date: 11/29/2021	Analysis Date: 12/1/2021	SeqNo: 2956178 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		119	70	130			

Sample ID: LCS-64215	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64215	RunNo: 83211								
Prep Date: 11/30/2021	Analysis Date: 12/2/2021	SeqNo: 2956906 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		78.4	70	130			

Sample ID: LCS-64225	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64225	RunNo: 83211								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956908 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		89.3	70	130			

Sample ID: LCS-64239	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64239	RunNo: 83211								
Prep Date: 12/1/2021	Analysis Date: 12/1/2021	SeqNo: 2956909 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		76.0	70	130			

Qualifiers:

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

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

WO#: 2111B19

06-Dec-21

Client: GHD Midland
Project: Ross EG Federal 3 Battery

Sample ID: MB-64225	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64225	RunNo: 83211								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956911 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		104	70	130			

Sample ID: MB-64239	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64239	RunNo: 83211								
Prep Date: 12/1/2021	Analysis Date: 12/1/2021	SeqNo: 2956912 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		113	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111B19

06-Dec-21

Client: GHD Midland
Project: Ross EG Federal 3 Battery

Sample ID: mb-64156	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64156	RunNo: 83144								
Prep Date: 11/24/2021	Analysis Date: 11/29/2021	SeqNo: 2953889 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.5	70	130			

Sample ID: lcs-64156	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64156	RunNo: 83144								
Prep Date: 11/24/2021	Analysis Date: 11/29/2021	SeqNo: 2953890 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.7	78.6	131			
Surr: BFB	1100		1000		111	70	130			

Sample ID: mb-64218	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64218	RunNo: 83219								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956659 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.0	70	130			

Sample ID: mb-64222	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64222	RunNo: 83219								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956660 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		1000		97.9	70	130			

Sample ID: lcs-64218	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64218	RunNo: 83219								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956661 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		113	70	130			

Sample ID: lcs-64222	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64222	RunNo: 83219								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956662 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111B19

06-Dec-21

Client: GHD Midland
Project: Ross EG Federal 3 Battery

Sample ID: 2111B19-006ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-8	Batch ID: 64162	RunNo: 83244								
Prep Date: 11/24/2021	Analysis Date: 12/2/2021	SeqNo: 2957993 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.30	0	88.5	61.3	114			
Surr: BFB	1100		932.0		113	70	130			

Sample ID: 2111B19-006amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-8	Batch ID: 64162	RunNo: 83244								
Prep Date: 11/24/2021	Analysis Date: 12/2/2021	SeqNo: 2957995 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.30	0	92.2	61.3	114	8.34	20	
Surr: BFB	1000		971.8		106	70	130	0	0	

Sample ID: mb-64246	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64246	RunNo: 83244								
Prep Date: 12/1/2021	Analysis Date: 12/2/2021	SeqNo: 2958009 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950		1000		94.7	70	130			

Sample ID: lcs-64246	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64246	RunNo: 83244								
Prep Date: 12/1/2021	Analysis Date: 12/2/2021	SeqNo: 2958020 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		112	70	130			

Sample ID: mb-64162	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64162	RunNo: 83244								
Prep Date: 11/24/2021	Analysis Date: 12/2/2021	SeqNo: 2958030 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.3	70	130			

Sample ID: lcs-64162	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64162	RunNo: 83244								
Prep Date: 11/24/2021	Analysis Date: 12/2/2021	SeqNo: 2958032 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.5	78.6	131			
Surr: BFB	1000		1000		102	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111B19

06-Dec-21

Client: GHD Midland
Project: Ross EG Federal 3 Battery

Sample ID: mb-64156	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64156	RunNo: 83144								
Prep Date: 11/24/2021	Analysis Date: 11/29/2021	SeqNo: 2953933 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	70	130			

Sample ID: LCS-64156	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64156	RunNo: 83144								
Prep Date: 11/24/2021	Analysis Date: 11/29/2021	SeqNo: 2953934 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.1	80	120			
Toluene	0.87	0.050	1.000	0	87.2	80	120			
Ethylbenzene	0.87	0.050	1.000	0	86.9	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-64162	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64162	RunNo: 83160								
Prep Date: 11/24/2021	Analysis Date: 11/30/2021	SeqNo: 2955312			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	70	130			

Sample ID: lcs-64162	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 64162			RunNo: 83160						
Prep Date: 11/24/2021	Analysis Date: 11/30/2021			SeqNo: 2955313			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.0	80	120			
Toluene	0.84	0.050	1.000	0	83.9	80	120			
Ethylbenzene	0.87	0.050	1.000	0	86.9	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.0	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.1	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111B19

06-Dec-21

Client: GHD Midland
Project: Ross EG Federal 3 Battery

Sample ID: mb-64218	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64218	RunNo: 83219								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956707			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		91.7	70	130			

Sample ID: mb-64222		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: 64222		RunNo: 83219						
Prep Date: 11/30/2021		Analysis Date: 12/1/2021		SeqNo: 2956708			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.91		1.000		91.4	70	130			

Sample ID: lcs-64218	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64218		RunNo: 83219							
Prep Date: 11/30/2021	Analysis Date: 12/1/2021		SeqNo: 2956709		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		92.7	70	130			

Sample ID: Ics-64222	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64222		RunNo: 83219							
Prep Date: 11/30/2021	Analysis Date: 12/1/2021		SeqNo: 2956710			Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.4	70	130			

Sample ID: 2111B19-007ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-9	Batch ID: 64162	RunNo: 83219								
Prep Date: 11/24/2021	Analysis Date: 12/1/2021	SeqNo: 2956712 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.025	0.9862	0	74.5	80	120			S
Toluene	0.77	0.049	0.9862	0	78.5	80	120			S
Ethylbenzene	0.81	0.049	0.9862	0	82.5	80	120			
Xylenes, Total	2.4	0.099	2.959	0	80.8	80	120			
Surr: 4-Bromofluorobenzene	0.88		0.9862		89.7	70	130			

Sample ID: 2111B19-007AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-9	Batch ID: 64162		RunNo: 83219							
Prep Date: 11/24/2021	Analysis Date: 12/1/2021		SeqNo: 2956715			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.024	0.9690	0	70.4	80	120	7.42	20	S

Qualifiers:

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

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

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

WO#: 2111B19

06-Dec-21

Client: GHD Midland
Project: Ross EG Federal 3 Battery

Sample ID: 2111B19-007AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-9	Batch ID: 64162	RunNo: 83219								
Prep Date: 11/24/2021	Analysis Date: 12/1/2021	SeqNo: 2956715 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	0.72	0.048	0.9690	0	74.1	80	120	7.53	20	S
Ethylbenzene	0.75	0.048	0.9690	0	77.9	80	120	7.54	20	S
Xylenes, Total	2.2	0.097	2.907	0	76.9	80	120	6.64	20	S
Surr: 4-Bromofluorobenzene	0.86		0.9690		89.0	70	130	0	0	

Sample ID: mb-64246	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64246	RunNo: 83244								
Prep Date: 12/1/2021	Analysis Date: 12/2/2021	SeqNo: 2958021 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.91		1.000		91.4	70	130			

Sample ID: lcs-64246	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64246	RunNo: 83244								
Prep Date: 12/1/2021	Analysis Date: 12/2/2021	SeqNo: 2958022							Units: %Rec	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	70	130			

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2111B19

RcptNo: 1

Received By: Isaiah Ortiz

11/23/2021 7:45:00 AM

I-Ox

Completed By: Sean Livingston

11/23/2021 8:04:13 AM

Sean Livingston

Reviewed By: *JN 11/23/21*

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *cmc 11/23/21*

Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Date	Time	Matrix	Sample Name
11/17/21	1015	S	BH-3
11/17/21	1020		BH-4
11/17/21	1025		BH-5
11/17/21	1030		BH-6
11/17/21	1035		BH-7
11/17/21	1040		BH-8
11/17/21	1045		BH-9
11/17/21	1100		BH-10
11/17/21	1105		BH-11
11/17/21	1110		BH-12
11/17/21	1115		BH-13
11/17/21	1120		BH-14

Date:	Time:	Relinquished by:
11/22/21	0800	Becky Haskell
Date:	Time:	Relinquished by:
11/22/21	1900	Becky Haskell

Turn-Around Time:

☒ Standard ☐ Rush 5-day

Project Name:

Ross EG Federal #3 Battery

Project #:

17563388

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

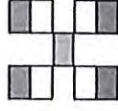
of Coolers: 1

Cooler Temp (including CF): $0.5^{\circ} \pm 0^{\circ}$

Container Type and #	Preservative Type	HEAL No.
Jew		2111B19

11/17/21	1015	S	BH-3	001
11/17/21	1020		BH-4	002
11/17/21	1025		BH-5	003
11/17/21	1030		BH-6	004
11/17/21	1035		BH-7	005
11/17/21	1040		BH-8	006
11/17/21	1045		BH-9	007
11/17/21	1100		BH-10	008
11/17/21	1105		BH-11	009
11/17/21	1110		BH-12	010
11/17/21	1115		BH-13	011
11/17/21	1120		BH-14	012

Date:	Time:	Received by:	Via:	Date:	Time:
11/22/21	0800	Becky Haskell		11/22/21	0800
Date:	Time:	Received by:	Via:	Date:	Time:
11/22/21	1900	Becky Haskell		11/23/21	0745



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
PFH:8015B(GRO/DR07/MR9)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)
PTX / MTBE / TMB's (8024)	PTX / MTBE / TMB's (8024)	PTX / MTBE / TMB's (8024)	PTX / MTBE / TMB's (8024)	PTX / MTBE / TMB's (8024)	PTX / MTBE / TMB's (8024)	PTX / MTBE / TMB's (8024)	PTX / MTBE / TMB's (8024)

Remarks: Please email: Chase_Settle@eogresources.com;
Tom.Larson@ghd.com; Zach.Comino@ghd.com
Matthew.Laughlin@ghd.com; Along with Becky Haskell
listed above.

Direct Bill to EOG Chase Settle

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



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

Becky Haskell
GHD
6121 Indian School Road, NE #200
Albuquerque, NM 87110
TEL: (505) 884-0672
FAX

RE: Ross EG Federal Battery

OrderNo.: 2111C06

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 9 sample(s) on 11/24/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2111C06

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: SW-5

Project: Ross EG Federal Battery

Collection Date: 11/23/2021 7:45:00 AM

Lab ID: 2111C06-001

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	330	60		mg/Kg	20	12/1/2021 5:36:43 PM	64243
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/1/2021 10:21:35 AM	64223
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/1/2021 10:21:35 AM	64223
Surr: DNOP	89.7	70-130		%Rec	1	12/1/2021 10:21:35 AM	64223
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/30/2021 6:35:43 PM	64196
Surr: BFB	101	70-130		%Rec	1	11/30/2021 6:35:43 PM	64196
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/30/2021 6:35:43 PM	64196
Toluene	ND	0.050		mg/Kg	1	11/30/2021 6:35:43 PM	64196
Ethylbenzene	ND	0.050		mg/Kg	1	11/30/2021 6:35:43 PM	64196
Xylenes, Total	ND	0.099		mg/Kg	1	11/30/2021 6:35:43 PM	64196
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/30/2021 6:35:43 PM	64196

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

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

Analytical Report

Lab Order 2111C06

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Project: Ross EG Federal Battery

Lab ID: 2111C06-002

Matrix: SOIL

Client Sample ID: BH-18

Collection Date: 11/23/2021 8:45:00 AM

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	210	60		mg/Kg	20	12/1/2021 6:13:48 PM	64243
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/1/2021 10:32:03 AM	64223
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/1/2021 10:32:03 AM	64223
Surr: DNOP	138	70-130	S	%Rec	1	12/1/2021 10:32:03 AM	64223
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/30/2021 6:58:58 PM	64196
Surr: BFB	101	70-130		%Rec	1	11/30/2021 6:58:58 PM	64196
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/30/2021 6:58:58 PM	64196
Toluene	ND	0.048		mg/Kg	1	11/30/2021 6:58:58 PM	64196
Ethylbenzene	ND	0.048		mg/Kg	1	11/30/2021 6:58:58 PM	64196
Xylenes, Total	ND	0.096		mg/Kg	1	11/30/2021 6:58:58 PM	64196
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/30/2021 6:58:58 PM	64196

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2111C06

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: BH-19

Project: Ross EG Federal Battery

Collection Date: 11/23/2021 9:20:00 AM

Lab ID: 2111C06-003

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	140	59		mg/Kg	20	12/1/2021 6:26:11 PM	64243
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/1/2021 10:42:31 AM	64223
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/1/2021 10:42:31 AM	64223
Surr: DNOP	138	70-130	S	%Rec	1	12/1/2021 10:42:31 AM	64223
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/30/2021 7:22:11 PM	64196
Surr: BFB	102	70-130		%Rec	1	11/30/2021 7:22:11 PM	64196
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/30/2021 7:22:11 PM	64196
Toluene	ND	0.049		mg/Kg	1	11/30/2021 7:22:11 PM	64196
Ethylbenzene	ND	0.049		mg/Kg	1	11/30/2021 7:22:11 PM	64196
Xylenes, Total	ND	0.098		mg/Kg	1	11/30/2021 7:22:11 PM	64196
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	11/30/2021 7:22:11 PM	64196

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

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

Analytical Report

Lab Order 2111C06

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: SW-6

Project: Ross EG Federal Battery

Collection Date: 11/23/2021 1:10:00 PM

Lab ID: 2111C06-004

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	300	60		mg/Kg	20	12/1/2021 6:38:33 PM	64243
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/1/2021 10:53:01 AM	64223
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/1/2021 10:53:01 AM	64223
Surr: DNOP	109	70-130		%Rec	1	12/1/2021 10:53:01 AM	64223
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/30/2021 7:45:28 PM	64196
Surr: BFB	105	70-130		%Rec	1	11/30/2021 7:45:28 PM	64196
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/30/2021 7:45:28 PM	64196
Toluene	ND	0.047		mg/Kg	1	11/30/2021 7:45:28 PM	64196
Ethylbenzene	ND	0.047		mg/Kg	1	11/30/2021 7:45:28 PM	64196
Xylenes, Total	ND	0.094		mg/Kg	1	11/30/2021 7:45:28 PM	64196
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	11/30/2021 7:45:28 PM	64196

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

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

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Analytical Report
Lab Order 2111C06
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: BH-15
Project: Ross EG Federal Battery Collection Date: 11/22/2021 12:45:00 PM
Lab ID: 2111C06-005 Matrix: SOIL Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2000	60		mg/Kg	20	12/2/2021 12:21:28 PM	64264
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/1/2021 11:03:31 AM	64223
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/1/2021 11:03:31 AM	64223
Surr: DNOP	155	70-130	S	%Rec	1	12/1/2021 11:03:31 AM	64223
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/1/2021 9:05:00 AM	64218
Surr: BFB	98.1	70-130		%Rec	1	12/1/2021 9:05:00 AM	64218
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	12/1/2021 9:05:00 AM	64218
Toluene	ND	0.046		mg/Kg	1	12/1/2021 9:05:00 AM	64218
Ethylbenzene	ND	0.046		mg/Kg	1	12/1/2021 9:05:00 AM	64218
Xylenes, Total	ND	0.093		mg/Kg	1	12/1/2021 9:05:00 AM	64218
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	12/1/2021 9:05:00 AM	64218

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

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

Analytical Report

Lab Order 2111C06

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: BH-16

Project: Ross EG Federal Battery

Collection Date: 11/22/2021 1:15:00 PM

Lab ID: 2111C06-006

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3900	150		mg/Kg	50	12/6/2021 9:38:39 PM	64264
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1300	200		mg/Kg	20	12/1/2021 4:02:38 PM	64223
Motor Oil Range Organics (MRO)	1600	990		mg/Kg	20	12/1/2021 4:02:38 PM	64223
Surr: DNOP	0	70-130	S	%Rec	20	12/1/2021 4:02:38 PM	64223
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	12/1/2021 10:04:00 AM	64218
Surr: BFB	103	70-130		%Rec	5	12/1/2021 10:04:00 AM	64218
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	12/1/2021 10:04:00 AM	64218
Toluene	ND	0.24		mg/Kg	5	12/1/2021 10:04:00 AM	64218
Ethylbenzene	ND	0.24		mg/Kg	5	12/1/2021 10:04:00 AM	64218
Xylenes, Total	ND	0.49		mg/Kg	5	12/1/2021 10:04:00 AM	64218
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	5	12/1/2021 10:04:00 AM	64218

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

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

Analytical Report

Lab Order 2111C06

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: SW-3

Project: Ross EG Federal Battery

Collection Date: 11/22/2021 1:55:00 PM

Lab ID: 2111C06-007

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	320	60		mg/Kg	20	12/2/2021 1:35:34 PM	64264
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	19	9.7		mg/Kg	1	12/1/2021 11:14:00 AM	64223
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/1/2021 11:14:00 AM	64223
Surr: DNOP	118	70-130		%Rec	1	12/1/2021 11:14:00 AM	64223
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/1/2021 11:03:00 AM	64218
Surr: BFB	102	70-130		%Rec	1	12/1/2021 11:03:00 AM	64218
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	12/1/2021 11:03:00 AM	64218
Toluene	ND	0.047		mg/Kg	1	12/1/2021 11:03:00 AM	64218
Ethylbenzene	ND	0.047		mg/Kg	1	12/1/2021 11:03:00 AM	64218
Xylenes, Total	ND	0.094		mg/Kg	1	12/1/2021 11:03:00 AM	64218
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	12/1/2021 11:03:00 AM	64218

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

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

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Analytical Report

Lab Order 2111C06

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: BH-17

Project: Ross EG Federal Battery

Collection Date: 11/22/2021 2:15:00 PM

Lab ID: 2111C06-008

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	520	60		mg/Kg	20	12/2/2021 1:47:55 PM	64264
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	150	9.7		mg/Kg	1	12/1/2021 11:24:32 AM	64223
Motor Oil Range Organics (MRO)	230	49		mg/Kg	1	12/1/2021 11:24:32 AM	64223
Surr: DNOP	124	70-130		%Rec	1	12/1/2021 11:24:32 AM	64223
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/1/2021 11:22:00 AM	64218
Surr: BFB	99.2	70-130		%Rec	1	12/1/2021 11:22:00 AM	64218
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	12/1/2021 11:22:00 AM	64218
Toluene	ND	0.048		mg/Kg	1	12/1/2021 11:22:00 AM	64218
Ethylbenzene	ND	0.048		mg/Kg	1	12/1/2021 11:22:00 AM	64218
Xylenes, Total	ND	0.097		mg/Kg	1	12/1/2021 11:22:00 AM	64218
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	12/1/2021 11:22:00 AM	64218

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2111C06

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: SW-4

Project: Ross EG Federal Battery

Collection Date: 11/22/2021 2:50:00 PM

Lab ID: 2111C06-009

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	120	60		mg/Kg	20	12/2/2021 2:00:16 PM	64264
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/1/2021 11:45:37 AM	64223
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/1/2021 11:45:37 AM	64223
Surr: DNOP	108	70-130		%Rec	1	12/1/2021 11:45:37 AM	64223
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/1/2021 11:42:00 AM	64218
Surr: BFB	94.1	70-130		%Rec	1	12/1/2021 11:42:00 AM	64218
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	12/1/2021 11:42:00 AM	64218
Toluene	ND	0.046		mg/Kg	1	12/1/2021 11:42:00 AM	64218
Ethylbenzene	ND	0.046		mg/Kg	1	12/1/2021 11:42:00 AM	64218
Xylenes, Total	ND	0.093		mg/Kg	1	12/1/2021 11:42:00 AM	64218
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	12/1/2021 11:42:00 AM	64218

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

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111C06

08-Dec-21

Client: GHD
Project: Ross EG Federal Battery

Sample ID: MB-64243		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 64243		RunNo: 83213						
Prep Date: 12/1/2021		Analysis Date: 12/1/2021		SeqNo: 2957107			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64243		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 64243		RunNo: 83213						
Prep Date: 12/1/2021		Analysis Date: 12/1/2021		SeqNo: 2957108		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

Sample ID: MB-64264	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64264	RunNo: 83262								
Prep Date: 12/2/2021	Analysis Date: 12/2/2021	SeqNo: 2958497 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64264	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64264	RunNo: 83262								
Prep Date: 12/2/2021	Analysis Date: 12/2/2021	SeqNo: 2958498			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.9	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 range due to dilution or matrix interference

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111C06

08-Dec-21

Client: GHD
Project: Ross EG Federal Battery

Sample ID: 2111C06-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-5	Batch ID: 64223	RunNo: 83211								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956841 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.4	46.86	4.833	75.4	39.3	155			
Surr: DNOP	37		4.686		795	70	130			S

Sample ID: 2111C06-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-5	Batch ID: 64223	RunNo: 83211								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956842 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.3	46.60	4.833	76.2	39.3	155	0.505	23.4	
Surr: DNOP	4.4		4.660		95.1	70	130	0	0	

Sample ID: LCS-64223	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64223	RunNo: 83211								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956907 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.1	68.9	135			
Surr: DNOP	4.2		5.000		83.7	70	130			

Sample ID: MB-64223	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64223	RunNo: 83211								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956910 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		134	70	130			S

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111C06

08-Dec-21

Client: GHD

Project: Ross EG Federal Battery

Sample ID: mb-64196	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64196	RunNo: 83185								
Prep Date: 11/29/2021	Analysis Date: 11/30/2021	SeqNo: 2955215 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.3	70	130			

Sample ID: lcs-64196	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64196	RunNo: 83185								
Prep Date: 11/29/2021	Analysis Date: 11/30/2021	SeqNo: 2955216 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.6	78.6	131			
Surr: BFB	1100		1000		113	70	130			

Sample ID: mb-64218	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64218	RunNo: 83219								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956659 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.0	70	130			

Sample ID: lcs-64218	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64218	RunNo: 83219								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956661 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.7	78.6	131			
Surr: BFB	1100		1000		113	70	130			

Sample ID: 2111C06-005ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-15	Batch ID: 64218	RunNo: 83219								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956663 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.65	0	106	61.3	114			
Surr: BFB	1100		986.2		115	70	130			

Sample ID: 2111C06-005amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-15	Batch ID: 64218	RunNo: 83219								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956664 Units: mg/Kg								
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 range due to dilution or matrix interference

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111C06

08-Dec-21

Client: GHD

Project: Ross EG Federal Battery

Sample ID: 2111C06-005amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH-15		Batch ID: 64218		RunNo: 83219						
Prep Date: 11/30/2021		Analysis Date: 12/1/2021		SeqNo: 2956664		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.49	0	101	61.3	114	5.61	20	
Surr: BFB	1100		979.4		115	70	130	0	0	

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111C06

08-Dec-21

Client: GHD
Project: Ross EG Federal Battery

Sample ID: mb-64196		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: 64196		RunNo: 83185						
Prep Date: 11/29/2021		Analysis Date: 11/30/2021		SeqNo: 2955257			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130			

Sample ID: LCS-64196		SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS		Batch ID: 64196		RunNo: 83185						
Prep Date: 11/29/2021		Analysis Date: 11/30/2021		SeqNo: 2955258		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.3	80	120			
Toluene	0.93	0.050	1.000	0	93.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-64218	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 64218			RunNo: 83219						
Prep Date: 11/30/2021	Analysis Date: 12/1/2021			SeqNo: 2956707			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		91.7	70	130			

Sample ID: lcs-64218	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 64218			RunNo: 83219						
Prep Date: 11/30/2021	Analysis Date: 12/1/2021			SeqNo: 2956709			Units: mg/Kg			
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	0.98	0.050	1.000	0	98.1	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.7	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 range due to dilution or matrix interference

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111C06

08-Dec-21

Client: GHD

Project: Ross EG Federal Battery

Sample ID: 2111C06-006ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-16	Batch ID: 64218	RunNo: 83219								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956711 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.12	0.9681	0	108	80	120			
Toluene	1.1	0.24	0.9681	0	109	80	120			
Ethylbenzene	1.1	0.24	0.9681	0	113	80	120			
Xylenes, Total	3.3	0.48	2.904	0	114	80	120			
Surr: 4-Bromofluorobenzene	4.4		4.840		91.2	70	130			

Sample ID: 2111C06-006amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-16	Batch ID: 64218	RunNo: 83219								
Prep Date: 11/30/2021	Analysis Date: 12/1/2021	SeqNo: 2956714 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.12	0.9569	0	100	80	120	8.66	20	
Toluene	0.97	0.24	0.9569	0	101	80	120	8.77	20	
Ethylbenzene	1.0	0.24	0.9569	0	106	80	120	7.80	20	
Xylenes, Total	3.0	0.48	2.871	0	103	80	120	11.1	20	
Surr: 4-Bromofluorobenzene	4.4		4.785		91.7	70	130	0	0	

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2111C06

RcptNo: 1

Received By: Cheyenne Cason 11/24/2021 7:43:00 AM

Completed By: Isaiah Ortiz 11/24/2021 8:24:26 AM

Reviewed By: *Jan 11/24/21*

11/24/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: *Care 11/24/21*

Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Not Present			
2	4.9	Good	Not Present			



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

December 09, 2021

Becky Haskell
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX:

RE: Ross EG Federal Battery

OrderNo.: 2112102

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/2/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2112102

Date Reported: 12/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-20

Project: Ross EG Federal Battery

Collection Date: 11/24/2021 7:00:00 AM

Lab ID: 2112102-001

Matrix: SOIL

Received Date: 12/2/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	110	60		mg/Kg	20	12/6/2021 4:53:11 PM	64322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	17	9.8		mg/Kg	1	12/7/2021 12:19:46 PM	64311
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/7/2021 12:19:46 PM	64311
Surr: DNOP	116	70-130		%Rec	1	12/7/2021 12:19:46 PM	64311
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	12/6/2021 9:33:00 AM	64296
Surr: BFB	112	70-130		%Rec	5	12/6/2021 9:33:00 AM	64296
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.12		mg/Kg	5	12/6/2021 9:33:00 AM	64296
Toluene	ND	0.25		mg/Kg	5	12/6/2021 9:33:00 AM	64296
Ethylbenzene	ND	0.25		mg/Kg	5	12/6/2021 9:33:00 AM	64296
Xylenes, Total	ND	0.49		mg/Kg	5	12/6/2021 9:33:00 AM	64296
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	12/6/2021 9:33:00 AM	64296

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

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

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Analytical Report

Lab Order 2112102

Date Reported: 12/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-21

Project: Ross EG Federal Battery

Collection Date: 11/24/2021 7:05:00 AM

Lab ID: 2112102-002

Matrix: SOIL

Received Date: 12/2/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	340	60		mg/Kg	20	12/6/2021 5:05:35 PM	64322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	61	9.2		mg/Kg	1	12/7/2021 12:30:16 PM	64311
Motor Oil Range Organics (MRO)	67	46		mg/Kg	1	12/7/2021 12:30:16 PM	64311
Surr: DNOP	99.0	70-130		%Rec	1	12/7/2021 12:30:16 PM	64311
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/6/2021 10:32:00 AM	64296
Surr: BFB	109	70-130		%Rec	1	12/6/2021 10:32:00 AM	64296
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	12/6/2021 10:32:00 AM	64296
Toluene	ND	0.047		mg/Kg	1	12/6/2021 10:32:00 AM	64296
Ethylbenzene	ND	0.047		mg/Kg	1	12/6/2021 10:32:00 AM	64296
Xylenes, Total	ND	0.094		mg/Kg	1	12/6/2021 10:32:00 AM	64296
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	12/6/2021 10:32:00 AM	64296

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

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

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Analytical Report

Lab Order 2112102

Date Reported: 12/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-22

Project: Ross EG Federal Battery

Collection Date: 11/24/2021 7:45:00 AM

Lab ID: 2112102-003

Matrix: SOIL

Received Date: 12/2/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	540	60		mg/Kg	20	12/6/2021 5:18:00 PM	64322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	25	9.5		mg/Kg	1	12/7/2021 12:40:46 PM	64311
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/7/2021 12:40:46 PM	64311
Surr: DNOP	126	70-130		%Rec	1	12/7/2021 12:40:46 PM	64311
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/6/2021 11:31:00 AM	64296
Surr: BFB	107	70-130		%Rec	1	12/6/2021 11:31:00 AM	64296
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	12/6/2021 11:31:00 AM	64296
Toluene	ND	0.046		mg/Kg	1	12/6/2021 11:31:00 AM	64296
Ethylbenzene	ND	0.046		mg/Kg	1	12/6/2021 11:31:00 AM	64296
Xylenes, Total	ND	0.092		mg/Kg	1	12/6/2021 11:31:00 AM	64296
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	12/6/2021 11:31:00 AM	64296

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

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

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

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Analytical Report

Lab Order 2112102

Date Reported: 12/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-23

Project: Ross EG Federal Battery

Collection Date: 11/24/2021 8:00:00 AM

Lab ID: 2112102-004

Matrix: SOIL

Received Date: 12/2/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	440	60		mg/Kg	20	12/6/2021 5:30:25 PM	64322
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	28	9.7		mg/Kg	1	12/7/2021 12:51:17 PM	64311
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/7/2021 12:51:17 PM	64311
Surr: DNOP	129	70-130		%Rec	1	12/7/2021 12:51:17 PM	64311
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/6/2021 11:51:00 AM	64296
Surr: BFB	110	70-130		%Rec	1	12/6/2021 11:51:00 AM	64296
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	12/6/2021 11:51:00 AM	64296
Toluene	ND	0.049		mg/Kg	1	12/6/2021 11:51:00 AM	64296
Ethylbenzene	ND	0.049		mg/Kg	1	12/6/2021 11:51:00 AM	64296
Xylenes, Total	ND	0.099		mg/Kg	1	12/6/2021 11:51:00 AM	64296
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	12/6/2021 11:51:00 AM	64296

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

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2112102

09-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: MB-64322	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64322	RunNo: 84319								
Prep Date: 12/6/2021	Analysis Date: 12/6/2021	SeqNo: 2962248 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64322	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64322	RunNo: 84319								
Prep Date: 12/6/2021	Analysis Date: 12/6/2021	SeqNo: 2962249 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.3	90	110			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2112102

09-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: LCS-64311	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64311	RunNo: 84333								
Prep Date: 12/6/2021	Analysis Date: 12/7/2021	SeqNo: 2963080		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.7	68.9	135			
Surr: DNOP	4.5		5.000		90.1	70	130			

Sample ID: MB-64311	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64311	RunNo: 84333								
Prep Date: 12/6/2021	Analysis Date: 12/7/2021	SeqNo: 2963082		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.1	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2112102

09-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: mb-64296	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64296	RunNo: 84321								
Prep Date: 12/3/2021	Analysis Date: 12/6/2021	SeqNo: 2962029 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		111	70	130			

Sample ID: lcs-64296	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64296	RunNo: 84321								
Prep Date: 12/3/2021	Analysis Date: 12/6/2021	SeqNo: 2962031 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	78.6	131			
Surr: BFB	1300		1000		127	70	130			

Sample ID: 2112102-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-20	Batch ID: 64296	RunNo: 84321								
Prep Date: 12/3/2021	Analysis Date: 12/6/2021	SeqNo: 2962032 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	25	24.56	0	112	61.3	114			
Surr: BFB	5700		4912		116	70	130			

Sample ID: 2112102-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-20	Batch ID: 64296	RunNo: 84321								
Prep Date: 12/3/2021	Analysis Date: 12/6/2021	SeqNo: 2962033 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	25	24.63	0	107	61.3	114	4.09	20	
Surr: BFB	5600		4926		114	70	130	0	0	

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2112102

09-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: mb-64296	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64296	RunNo: 84321								
Prep Date: 12/3/2021	Analysis Date: 12/6/2021	SeqNo: 2962057 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: Ics-64296	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64296	RunNo: 84321								
Prep Date: 12/3/2021	Analysis Date: 12/6/2021	SeqNo: 2962059			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.94	0.050	1.000	0	93.6	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: 2112102-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-21	Batch ID: 64296	RunNo: 84321								
Prep Date: 12/3/2021	Analysis Date: 12/6/2021	SeqNo: 2962060			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.023	0.9346	0	84.1	80	120			
Toluene	0.83	0.047	0.9346	0	88.9	80	120			
Ethylbenzene	0.88	0.047	0.9346	0	93.7	80	120			
Xylenes, Total	2.6	0.093	2.804	0	92.5	80	120			
Surr: 4-Bromofluorobenzene	0.90		0.9346		96.7	70	130			

Sample ID: 2112102-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-21	Batch ID: 64296	RunNo: 84321								
Prep Date: 12/3/2021	Analysis Date: 12/6/2021	SeqNo: 2962066 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.023	0.9355	0	84.8	80	120	0.938	20	
Toluene	0.82	0.047	0.9355	0	87.9	80	120	1.04	20	
Ethylbenzene	0.85	0.047	0.9355	0	91.1	80	120	2.70	20	
Xylenes, Total	2.5	0.094	2.806	0	90.0	80	120	2.64	20	
Surr: 4-Bromofluorobenzene	0.92		0.9355		98.5	70	130	0	0	

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2112102

RcptNo: 1

Received By: Cheyenne Cason 12/2/2021 8:00:00 AM

CC

Completed By: Desiree Dominguez 12/2/2021 10:05:25 AM

DD

Reviewed By: *Sec* (12/7/21)

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: *jr 12/3/21*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good				
2	5.7	Good				
3	0.5	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NIM 88210

Phone #: (505)377-4218

email or Fax#: Beckv.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush S-2a

Project Name:

Ross EG Federal Battery

Project #:

12563388

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No# of Coolers: 3Cooler Temp (including cp): Sac Burrows

Date Time Matrix Sample Name

11/24/20 0700 S BH-20

11/24/20 0705 BH-21

11/24/20 0745 BH-22

11/24/20 0800 BH-23

Container Type and #

Tow

Preservative Type

2112-102

HEAL No.

-001-002-003-004

Analysis Request

BTX / MTBE / TMB's (8024)

(PH:8015D/GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chase_Mellor SGO11

Remarks: Please email: Chase_Settle@eogresources.com;

Tom.Larson@ghd.com; Zach.Comino@ghd.com

Matthew.Laughlin@ghd.com: Along with Becky Haskell

listed above.

Direct Bill to EOG Chase Settle

4.5 + 0.1 = 4.65.7 + 0.1 = 5.80.4 + 0.1 = 0.5

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: clients.hallenvironmental.com

December 21, 2021

Becky Haskell
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX:

RE: Ross EG Federal Battery

OrderNo.: 2112372

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 24 sample(s) on 12/7/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-24

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 8:00:00 AM

Lab ID: 2112372-001

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	4100	150		mg/Kg	50	12/14/2021 3:47:08 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	200	9.6		mg/Kg	1	12/13/2021 1:11:10 PM	64357
Motor Oil Range Organics (MRO)	110	48		mg/Kg	1	12/13/2021 1:11:10 PM	64357
Surr: DNOP	109	70-130		%Rec	1	12/13/2021 1:11:10 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2021 1:51:51 PM	64352
Surr: BFB	98.4	70-130		%Rec	1	12/8/2021 1:51:51 PM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/8/2021 1:51:51 PM	64352
Toluene	ND	0.049		mg/Kg	1	12/8/2021 1:51:51 PM	64352
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2021 1:51:51 PM	64352
Xylenes, Total	ND	0.098		mg/Kg	1	12/8/2021 1:51:51 PM	64352
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	12/8/2021 1:51:51 PM	64352

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

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

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

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Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-25

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 8:05:00 AM

Lab ID: 2112372-002

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2200	60		mg/Kg	20	12/13/2021 3:04:15 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	210	46		mg/Kg	5	12/11/2021 12:01:50 AM	64357
Motor Oil Range Organics (MRO)	310	230		mg/Kg	5	12/11/2021 12:01:50 AM	64357
Surr: DNOP	93.0	70-130		%Rec	5	12/11/2021 12:01:50 AM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2021 3:01:53 PM	64352
Surr: BFB	98.1	70-130		%Rec	1	12/8/2021 3:01:53 PM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/8/2021 3:01:53 PM	64352
Toluene	ND	0.049		mg/Kg	1	12/8/2021 3:01:53 PM	64352
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2021 3:01:53 PM	64352
Xylenes, Total	ND	0.099		mg/Kg	1	12/8/2021 3:01:53 PM	64352
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	12/8/2021 3:01:53 PM	64352

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-26

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 8:10:00 AM

Lab ID: 2112372-003

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2400	150		mg/Kg	50	12/14/2021 3:59:33 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	11	8.5		mg/Kg	1	12/9/2021 5:53:54 PM	64357
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	12/9/2021 5:53:54 PM	64357
Surr: DNOP	123	70-130		%Rec	1	12/9/2021 5:53:54 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/8/2021 9:41:46 PM	64352
Surr: BFB	103	70-130		%Rec	1	12/8/2021 9:41:46 PM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/8/2021 9:41:46 PM	64352
Toluene	ND	0.050		mg/Kg	1	12/8/2021 9:41:46 PM	64352
Ethylbenzene	ND	0.050		mg/Kg	1	12/8/2021 9:41:46 PM	64352
Xylenes, Total	ND	0.099		mg/Kg	1	12/8/2021 9:41:46 PM	64352
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/8/2021 9:41:46 PM	64352

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

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

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

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Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-27

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 8:30:00 AM

Lab ID: 2112372-004

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	940	60		mg/Kg	20	12/13/2021 4:18:42 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	170	19		mg/Kg	2	12/10/2021 10:36:11 PM	64357
Motor Oil Range Organics (MRO)	180	93		mg/Kg	2	12/10/2021 10:36:11 PM	64357
Surr: DNOP	84.6	70-130		%Rec	2	12/10/2021 10:36:11 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/8/2021 10:05:14 PM	64352
Surr: BFB	96.8	70-130		%Rec	1	12/8/2021 10:05:14 PM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/8/2021 10:05:14 PM	64352
Toluene	ND	0.050		mg/Kg	1	12/8/2021 10:05:14 PM	64352
Ethylbenzene	ND	0.050		mg/Kg	1	12/8/2021 10:05:14 PM	64352
Xylenes, Total	ND	0.099		mg/Kg	1	12/8/2021 10:05:14 PM	64352
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	12/8/2021 10:05:14 PM	64352

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

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

Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-28

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 8:35:00 AM

Lab ID: 2112372-005

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	770	60		mg/Kg	20	12/13/2021 4:31:07 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	950	95		mg/Kg	10	12/9/2021 6:15:26 PM	64357
Motor Oil Range Organics (MRO)	720	470		mg/Kg	10	12/9/2021 6:15:26 PM	64357
Surr: DNOP	0	70-130	S	%Rec	10	12/9/2021 6:15:26 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/8/2021 10:28:44 PM	64352
Surr: BFB	97.6	70-130		%Rec	1	12/8/2021 10:28:44 PM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/8/2021 10:28:44 PM	64352
Toluene	ND	0.050		mg/Kg	1	12/8/2021 10:28:44 PM	64352
Ethylbenzene	ND	0.050		mg/Kg	1	12/8/2021 10:28:44 PM	64352
Xylenes, Total	ND	0.099		mg/Kg	1	12/8/2021 10:28:44 PM	64352
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	12/8/2021 10:28:44 PM	64352

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

Qualifiers:

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

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

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Analytical Report
 Lab Order 2112372
 Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** BH-29
Project: Ross EG Federal Battery **Collection Date:** 12/3/2021 8:40:00 AM
Lab ID: 2112372-006 **Matrix:** SOIL **Received Date:** 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	950	60		mg/Kg	20	12/13/2021 4:43:31 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	69	8.5		mg/Kg	1	12/9/2021 6:26:10 PM	64357
Motor Oil Range Organics (MRO)	77	43		mg/Kg	1	12/9/2021 6:26:10 PM	64357
Surr: DNOP	82.6	70-130		%Rec	1	12/9/2021 6:26:10 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2021 10:52:14 PM	64352
Surr: BFB	97.0	70-130		%Rec	1	12/8/2021 10:52:14 PM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/8/2021 10:52:14 PM	64352
Toluene	ND	0.049		mg/Kg	1	12/8/2021 10:52:14 PM	64352
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2021 10:52:14 PM	64352
Xylenes, Total	ND	0.098		mg/Kg	1	12/8/2021 10:52:14 PM	64352
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	12/8/2021 10:52:14 PM	64352

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

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

Analytical Report
Lab Order 2112372
Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-30
Project: Ross EG Federal Battery Collection Date: 12/3/2021 8:45:00 AM
Lab ID: 2112372-007 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	580	60		mg/Kg	20	12/13/2021 4:55:55 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/9/2021 6:58:07 PM	64357
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2021 6:58:07 PM	64357
Surr: DNOP	107	70-130		%Rec	1	12/9/2021 6:58:07 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/8/2021 11:15:46 PM	64352
Surr: BFB	101	70-130		%Rec	1	12/8/2021 11:15:46 PM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/8/2021 11:15:46 PM	64352
Toluene	ND	0.050		mg/Kg	1	12/8/2021 11:15:46 PM	64352
Ethylbenzene	ND	0.050		mg/Kg	1	12/8/2021 11:15:46 PM	64352
Xylenes, Total	ND	0.099		mg/Kg	1	12/8/2021 11:15:46 PM	64352
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/8/2021 11:15:46 PM	64352

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

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

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Analytical Report
Lab Order 2112372
Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-31
Project: Ross EG Federal Battery Collection Date: 12/3/2021 9:00:00 AM
Lab ID: 2112372-008 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	370	60		mg/Kg	20	12/13/2021 5:08:20 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/9/2021 7:08:48 PM	64357
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/9/2021 7:08:48 PM	64357
Surr: DNOP	83.8	70-130		%Rec	1	12/9/2021 7:08:48 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/8/2021 11:39:03 PM	64352
Surr: BFB	103	70-130		%Rec	1	12/8/2021 11:39:03 PM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/8/2021 11:39:03 PM	64352
Toluene	ND	0.050		mg/Kg	1	12/8/2021 11:39:03 PM	64352
Ethylbenzene	ND	0.050		mg/Kg	1	12/8/2021 11:39:03 PM	64352
Xylenes, Total	ND	0.10		mg/Kg	1	12/8/2021 11:39:03 PM	64352
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	12/8/2021 11:39:03 PM	64352

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

Qualifiers:

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

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

Analytical Report
Lab Order 2112372
Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross EG Federal Battery
Lab ID: 2112372-009
Matrix: SOIL
Client Sample ID: BH-32
Collection Date: 12/3/2021 9:05:00 AM
Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	730	60		mg/Kg	20	12/13/2021 5:20:44 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/9/2021 7:19:25 PM	64357
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2021 7:19:25 PM	64357
Surr: DNOP	91.2	70-130		%Rec	1	12/9/2021 7:19:25 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2021 12:02:34 AM	64352
Surr: BFB	102	70-130		%Rec	1	12/9/2021 12:02:34 AM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/9/2021 12:02:34 AM	64352
Toluene	ND	0.049		mg/Kg	1	12/9/2021 12:02:34 AM	64352
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2021 12:02:34 AM	64352
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2021 12:02:34 AM	64352
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/9/2021 12:02:34 AM	64352

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

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

Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-33

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 9:10:00 AM

Lab ID: 2112372-010

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1500	60		mg/Kg	20	12/13/2021 5:33:09 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	52	9.3		mg/Kg	1	12/9/2021 7:29:59 PM	64357
Motor Oil Range Organics (MRO)	56	47		mg/Kg	1	12/9/2021 7:29:59 PM	64357
Surr: DNOP	127	70-130		%Rec	1	12/9/2021 7:29:59 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2021 12:26:05 AM	64352
Surr: BFB	96.8	70-130		%Rec	1	12/9/2021 12:26:05 AM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/9/2021 12:26:05 AM	64352
Toluene	ND	0.049		mg/Kg	1	12/9/2021 12:26:05 AM	64352
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2021 12:26:05 AM	64352
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2021 12:26:05 AM	64352
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	12/9/2021 12:26:05 AM	64352

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

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

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

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-34
Project: Ross EG Federal Battery Collection Date: 12/3/2021 9:20:00 AM
Lab ID: 2112372-011 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	89	60		mg/Kg	20	12/13/2021 6:10:22 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	11	9.8		mg/Kg	1	12/10/2021 9:22:33 PM	64357
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2021 9:22:33 PM	64357
Surr: DNOP	99.7	70-130		%Rec	1	12/10/2021 9:22:33 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2021 12:49:37 AM	64352
Surr: BFB	99.7	70-130		%Rec	1	12/9/2021 12:49:37 AM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/9/2021 12:49:37 AM	64352
Toluene	ND	0.050		mg/Kg	1	12/9/2021 12:49:37 AM	64352
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2021 12:49:37 AM	64352
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2021 12:49:37 AM	64352
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	12/9/2021 12:49:37 AM	64352

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

Qualifiers:

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

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

Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-35

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 9:25:00 AM

Lab ID: 2112372-012

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2400	150		mg/Kg	50	12/14/2021 4:36:46 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	10	9.5		mg/Kg	1	12/9/2021 7:51:04 PM	64357
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2021 7:51:04 PM	64357
Surr: DNOP	99.9	70-130		%Rec	1	12/9/2021 7:51:04 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2021 1:13:08 AM	64352
Surr: BFB	100	70-130		%Rec	1	12/9/2021 1:13:08 AM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/9/2021 1:13:08 AM	64352
Toluene	ND	0.050		mg/Kg	1	12/9/2021 1:13:08 AM	64352
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2021 1:13:08 AM	64352
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2021 1:13:08 AM	64352
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	12/9/2021 1:13:08 AM	64352

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

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

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

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Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-36

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 9:30:00 AM

Lab ID: 2112372-013

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	12/13/2021 6:35:11 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/9/2021 8:01:35 PM	64357
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/9/2021 8:01:35 PM	64357
Surr: DNOP	96.3	70-130		%Rec	1	12/9/2021 8:01:35 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2021 2:23:39 AM	64352
Surr: BFB	103	70-130		%Rec	1	12/9/2021 2:23:39 AM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/9/2021 2:23:39 AM	64352
Toluene	ND	0.049		mg/Kg	1	12/9/2021 2:23:39 AM	64352
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2021 2:23:39 AM	64352
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2021 2:23:39 AM	64352
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/9/2021 2:23:39 AM	64352

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

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

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Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-37

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 9:40:00 AM

Lab ID: 2112372-014

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2100	150		mg/Kg	50	12/14/2021 4:49:11 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/9/2021 8:12:08 PM	64357
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/9/2021 8:12:08 PM	64357
Surr: DNOP	79.3	70-130		%Rec	1	12/9/2021 8:12:08 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2021 2:47:15 AM	64352
Surr: BFB	100	70-130		%Rec	1	12/9/2021 2:47:15 AM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/9/2021 2:47:15 AM	64352
Toluene	ND	0.049		mg/Kg	1	12/9/2021 2:47:15 AM	64352
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2021 2:47:15 AM	64352
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2021 2:47:15 AM	64352
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/9/2021 2:47:15 AM	64352

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

Qualifiers:

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

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

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Analytical Report
Lab Order 2112372
Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Ross EG Federal Battery
Lab ID: 2112372-015
Matrix: SOIL
Client Sample ID: BH-38
Collection Date: 12/3/2021 9:45:00 AM
Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	800	60		mg/Kg	20	12/13/2021 6:59:59 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	17	9.5		mg/Kg	1	12/9/2021 8:22:42 PM	64357
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2021 8:22:42 PM	64357
Surr: DNOP	111	70-130		%Rec	1	12/9/2021 8:22:42 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2021 3:10:36 AM	64352
Surr: BFB	102	70-130		%Rec	1	12/9/2021 3:10:36 AM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/9/2021 3:10:36 AM	64352
Toluene	ND	0.049		mg/Kg	1	12/9/2021 3:10:36 AM	64352
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2021 3:10:36 AM	64352
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2021 3:10:36 AM	64352
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	12/9/2021 3:10:36 AM	64352

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

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

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

Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-39

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 9:50:00 AM

Lab ID: 2112372-016

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1700	60		mg/Kg	20	12/13/2021 7:12:24 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	75	9.5		mg/Kg	1	12/9/2021 8:33:18 PM	64357
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2021 8:33:18 PM	64357
Surr: DNOP	75.7	70-130		%Rec	1	12/9/2021 8:33:18 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2021 3:34:02 AM	64352
Surr: BFB	98.2	70-130		%Rec	1	12/9/2021 3:34:02 AM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/9/2021 3:34:02 AM	64352
Toluene	ND	0.049		mg/Kg	1	12/9/2021 3:34:02 AM	64352
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2021 3:34:02 AM	64352
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2021 3:34:02 AM	64352
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	12/9/2021 3:34:02 AM	64352

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

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

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

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Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-40

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 10:00:00 AM

Lab ID: 2112372-017

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1800	59		mg/Kg	20	12/13/2021 7:24:48 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	210	9.6		mg/Kg	1	12/9/2021 8:43:54 PM	64357
Motor Oil Range Organics (MRO)	150	48		mg/Kg	1	12/9/2021 8:43:54 PM	64357
Surr: DNOP	95.7	70-130		%Rec	1	12/9/2021 8:43:54 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2021 3:57:29 AM	64352
Surr: BFB	96.3	70-130		%Rec	1	12/9/2021 3:57:29 AM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/9/2021 3:57:29 AM	64352
Toluene	ND	0.049		mg/Kg	1	12/9/2021 3:57:29 AM	64352
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2021 3:57:29 AM	64352
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2021 3:57:29 AM	64352
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	12/9/2021 3:57:29 AM	64352

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

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

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Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-41

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 10:05:00 AM

Lab ID: 2112372-018

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	890	60		mg/Kg	20	12/13/2021 7:37:13 PM	64454
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/9/2021 9:15:34 PM	64357
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2021 9:15:34 PM	64357
Surr: DNOP	109	70-130		%Rec	1	12/9/2021 9:15:34 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2021 4:20:54 AM	64352
Surr: BFB	100	70-130		%Rec	1	12/9/2021 4:20:54 AM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/9/2021 4:20:54 AM	64352
Toluene	ND	0.049		mg/Kg	1	12/9/2021 4:20:54 AM	64352
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2021 4:20:54 AM	64352
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2021 4:20:54 AM	64352
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/9/2021 4:20:54 AM	64352

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

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

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

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Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-7

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 10:40:00 AM

Lab ID: 2112372-019

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	240	60		mg/Kg	20	12/13/2021 8:39:15 PM	64456
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/9/2021 9:26:15 PM	64357
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2021 9:26:15 PM	64357
Surr: DNOP	90.8	70-130		%Rec	1	12/9/2021 9:26:15 PM	64357
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2021 4:44:20 AM	64352
Surr: BFB	99.8	70-130		%Rec	1	12/9/2021 4:44:20 AM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/9/2021 4:44:20 AM	64352
Toluene	ND	0.049		mg/Kg	1	12/9/2021 4:44:20 AM	64352
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2021 4:44:20 AM	64352
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2021 4:44:20 AM	64352
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/9/2021 4:44:20 AM	64352

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

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

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

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Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-8

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 10:45:00 AM

Lab ID: 2112372-020

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	440	60		mg/Kg	20	12/13/2021 9:16:28 PM	64456
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/14/2021 11:40:40 AM	64478
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/14/2021 11:40:40 AM	64478
Surr: DNOP	85.5	70-130		%Rec	1	12/14/2021 11:40:40 AM	64478
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2021 5:07:46 AM	64352
Surr: BFB	101	70-130		%Rec	1	12/9/2021 5:07:46 AM	64352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/9/2021 5:07:46 AM	64352
Toluene	ND	0.049		mg/Kg	1	12/9/2021 5:07:46 AM	64352
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2021 5:07:46 AM	64352
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2021 5:07:46 AM	64352
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/9/2021 5:07:46 AM	64352

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

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

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

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Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-9

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 10:50:00 AM

Lab ID: 2112372-021

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	460	60		mg/Kg	20	12/13/2021 9:28:53 PM	64456
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	12/10/2021 12:48:29 AM	64380
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/10/2021 12:48:29 AM	64380
Surr: DNOP	84.6	70-130		%Rec	1	12/10/2021 12:48:29 AM	64380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2021 5:17:00 AM	64358
Surr: BFB	100	70-130		%Rec	1	12/9/2021 5:17:00 AM	64358
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/9/2021 5:17:00 AM	64358
Toluene	ND	0.050		mg/Kg	1	12/9/2021 5:17:00 AM	64358
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2021 5:17:00 AM	64358
Xylenes, Total	ND	0.10		mg/Kg	1	12/9/2021 5:17:00 AM	64358
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	12/9/2021 5:17:00 AM	64358

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

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

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

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Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-10

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 11:00:00 AM

Lab ID: 2112372-022

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	410	60		mg/Kg	20	12/13/2021 9:41:17 PM	64456
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/10/2021 12:59:01 AM	64380
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/10/2021 12:59:01 AM	64380
Surr: DNOP	97.3	70-130		%Rec	1	12/10/2021 12:59:01 AM	64380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2021 6:16:00 AM	64358
Surr: BFB	96.6	70-130		%Rec	1	12/9/2021 6:16:00 AM	64358
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/9/2021 6:16:00 AM	64358
Toluene	ND	0.049		mg/Kg	1	12/9/2021 6:16:00 AM	64358
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2021 6:16:00 AM	64358
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2021 6:16:00 AM	64358
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	12/9/2021 6:16:00 AM	64358

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

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

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Analytical Report

Lab Order 2112372

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-11

Project: Ross EG Federal Battery

Collection Date: 12/3/2021 11:45:00 AM

Lab ID: 2112372-023

Matrix: SOIL

Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	200	60		mg/Kg	20	12/13/2021 9:53:41 PM	64456
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/10/2021 1:09:29 AM	64380
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/10/2021 1:09:29 AM	64380
Surr: DNOP	76.6	70-130		%Rec	1	12/10/2021 1:09:29 AM	64380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2021 7:15:00 AM	64358
Surr: BFB	98.4	70-130		%Rec	1	12/9/2021 7:15:00 AM	64358
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/9/2021 7:15:00 AM	64358
Toluene	ND	0.050		mg/Kg	1	12/9/2021 7:15:00 AM	64358
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2021 7:15:00 AM	64358
Xylenes, Total	ND	0.10		mg/Kg	1	12/9/2021 7:15:00 AM	64358
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	12/9/2021 7:15:00 AM	64358

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

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

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

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Analytical Report
Lab Order 2112372
Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-12
Project: Ross EG Federal Battery Collection Date: 12/3/2021 12:00:00 PM
Lab ID: 2112372-024 Matrix: SOIL Received Date: 12/7/2021 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	280	59		mg/Kg	20	12/13/2021 10:06:05 PM	64456
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.0		mg/Kg	1	12/10/2021 1:19:57 AM	64380
Motor Oil Range Organics (MRO)	ND	40		mg/Kg	1	12/10/2021 1:19:57 AM	64380
Surr: DNOP	93.8	70-130		%Rec	1	12/10/2021 1:19:57 AM	64380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2021 7:35:00 AM	64358
Surr: BFB	99.3	70-130		%Rec	1	12/9/2021 7:35:00 AM	64358
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/9/2021 7:35:00 AM	64358
Toluene	ND	0.050		mg/Kg	1	12/9/2021 7:35:00 AM	64358
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2021 7:35:00 AM	64358
Xylenes, Total	ND	0.10		mg/Kg	1	12/9/2021 7:35:00 AM	64358
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	12/9/2021 7:35:00 AM	64358

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

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

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

WO#: 2112372

21-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: MB-64454	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64454	RunNo: 84503								
Prep Date: 12/13/2021	Analysis Date: 12/13/2021	SeqNo: 2969547 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64454	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64454	RunNo: 84503								
Prep Date: 12/13/2021	Analysis Date: 12/13/2021	SeqNo: 2969548 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	90	110			

Sample ID: MB-64456	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64456	RunNo: 84503								
Prep Date: 12/13/2021	Analysis Date: 12/13/2021	SeqNo: 2969579 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64456	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64456	RunNo: 84503								
Prep Date: 12/13/2021	Analysis Date: 12/13/2021	SeqNo: 2969580 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2112372

21-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: LCS-64353	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64353	RunNo: 84388								
Prep Date: 12/7/2021	Analysis Date: 12/9/2021	SeqNo: 2964798 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.5		5.000		70.2	70	130			

Sample ID: MB-64353	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64353	RunNo: 84388								
Prep Date: 12/7/2021	Analysis Date: 12/9/2021	SeqNo: 2964800 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		89.7	70	130			

Sample ID: 2112372-021AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-9	Batch ID: 64380	RunNo: 84388								
Prep Date: 12/8/2021	Analysis Date: 12/10/2021	SeqNo: 2966160 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.7	48.40	4.498	89.3	39.3	155			
Surr: DNOP	5.5		4.840		115	70	130			

Sample ID: 2112372-021AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-9	Batch ID: 64380	RunNo: 84388								
Prep Date: 12/8/2021	Analysis Date: 12/10/2021	SeqNo: 2966161 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.2	46.08	4.498	86.9	39.3	155	6.88	23.4	
Surr: DNOP	3.7		4.608		80.9	70	130	0	0	

Sample ID: LCS-64357	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64357	RunNo: 84388								
Prep Date: 12/7/2021	Analysis Date: 12/9/2021	SeqNo: 2966206 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	68.9	135			
Surr: DNOP	4.7		5.000		93.8	70	130			

Sample ID: LCS-64380	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64380	RunNo: 84388								
Prep Date: 12/8/2021	Analysis Date: 12/10/2021	SeqNo: 2966208 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	89.0	68.9	135			
Surr: DNOP	4.0		5.000		79.4	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2112372

21-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: MB-64357	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64357	RunNo: 84388								
Prep Date: 12/7/2021	Analysis Date: 12/9/2021	SeqNo: 2966210 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.6	70	130			

Sample ID: MB-64380	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64380	RunNo: 84388								
Prep Date: 12/8/2021	Analysis Date: 12/10/2021	SeqNo: 2966213 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.4	70	130			

Sample ID: LCS-64478	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64478	RunNo: 84516								
Prep Date: 12/14/2021	Analysis Date: 12/14/2021	SeqNo: 2970114 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.6	68.9	135			
Surr: DNOP	4.3		5.000		86.3	70	130			

Sample ID: MB-64478	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64478	RunNo: 84516								
Prep Date: 12/14/2021	Analysis Date: 12/14/2021	SeqNo: 2970115 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.1	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2112372

21-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: mb-64352	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64352	RunNo: 84376								
Prep Date: 12/7/2021	Analysis Date: 12/8/2021	SeqNo: 2964044 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	70	130			

Sample ID: lcs-64352	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64352	RunNo: 84376								
Prep Date: 12/7/2021	Analysis Date: 12/8/2021	SeqNo: 2964045 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.4	78.6	131			
Surr: BFB	1100		1000		111	70	130			

Sample ID: 2112372-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-24	Batch ID: 64352	RunNo: 84376								
Prep Date: 12/7/2021	Analysis Date: 12/8/2021	SeqNo: 2964047 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.34	0	105	61.3	114			
Surr: BFB	1100		973.7		110	70	130			

Sample ID: 2112372-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-24	Batch ID: 64352	RunNo: 84376								
Prep Date: 12/7/2021	Analysis Date: 12/8/2021	SeqNo: 2964048 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	24.93	0	111	61.3	114	8.44	20	
Surr: BFB	1100		997.0		112	70	130	0	0	

Sample ID: lcs-64346	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64346	RunNo: 84404								
Prep Date: 12/7/2021	Analysis Date: 12/8/2021	SeqNo: 2965075 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	70	130			

Sample ID: mb-64346	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64346	RunNo: 84404								
Prep Date: 12/7/2021	Analysis Date: 12/8/2021	SeqNo: 2965076 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		1000		92.3	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2112372

21-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: Ics-64358	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64358	RunNo: 84404								
Prep Date: 12/7/2021	Analysis Date: 12/9/2021	SeqNo: 2965125 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.7	78.6	131			
Surr: BFB	1000		1000		103	70	130			

Sample ID: mb-64358	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64358	RunNo: 84404								
Prep Date: 12/7/2021	Analysis Date: 12/9/2021	SeqNo: 2965127 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.5	70	130			

Sample ID: 2112372-021ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SW-9	Batch ID: 64358	RunNo: 84404								
Prep Date: 12/7/2021	Analysis Date: 12/9/2021	SeqNo: 2965129 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	24.75	0	109	61.3	114			
Surr: BFB	1100		990.1		112	70	130			

Sample ID: 2112372-021amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SW-9	Batch ID: 64358	RunNo: 84404								
Prep Date: 12/7/2021	Analysis Date: 12/9/2021	SeqNo: 2965130 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.56	0	105	61.3	114	4.59	20	
Surr: BFB	1100		982.3		111	70	130	0	0	

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2112372

21-Dec-21

Client: GHD Midland

Project: Ross EG Federal Battery

Sample ID: mb-64352	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 64352			RunNo: 84376						
Prep Date: 12/7/2021	Analysis Date: 12/8/2021			SeqNo: 2964095			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: LCS-64352	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 64352			RunNo: 84376						
Prep Date: 12/7/2021	Analysis Date: 12/8/2021			SeqNo: 2964096			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.3	80	120			
Toluene	0.91	0.050	1.000	0	91.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.2	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: 2112372-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-25	Batch ID: 64352	RunNo: 84376								
Prep Date: 12/7/2021	Analysis Date: 12/8/2021	SeqNo: 2964099			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	0.9980	0	96.7	80	120			
Toluene	0.98	0.050	0.9980	0.01361	96.9	80	120			
Ethylbenzene	0.99	0.050	0.9980	0	99.0	80	120			
Xylenes, Total	2.9	0.10	2.994	0	98.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		0.9980		102	70	130			

Sample ID: 2112372-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-25	Batch ID: 64352		RunNo: 84376							
Prep Date: 12/7/2021	Analysis Date: 12/8/2021		SeqNo: 2964100		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9891	0	98.7	80	120	1.09	20	
Toluene	1.0	0.049	0.9891	0.01361	99.6	80	120	1.82	20	
Ethylbenzene	1.0	0.049	0.9891	0	103	80	120	2.82	20	
Xylenes, Total	3.0	0.099	2.967	0	102	80	120	2.52	20	
Surr: 4-Bromofluorobenzene	1.0		0.9891		102	70	130	0	0	

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2112372

21-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: lcs-64346	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64346	RunNo: 84404								
Prep Date: 12/7/2021	Analysis Date: 12/8/2021	SeqNo: 2965167 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.81		1.000		81.2	70	130			

Sample ID: mb-64346	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64346	RunNo: 84404								
Prep Date: 12/7/2021	Analysis Date: 12/8/2021	SeqNo: 2965168 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.84		1.000		84.1	70	130			

Sample ID: lcs-64358	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64358	RunNo: 84404								
Prep Date: 12/7/2021	Analysis Date: 12/9/2021	SeqNo: 2965215 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.0	80	120			
Toluene	0.89	0.050	1.000	0	89.3	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.9	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.2	80	120			
Surr: 4-Bromofluorobenzene	0.82		1.000		82.2	70	130			

Sample ID: mb-64358	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64358	RunNo: 84404								
Prep Date: 12/7/2021	Analysis Date: 12/9/2021	SeqNo: 2965216 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.8	70	130			

Sample ID: 2112372-022ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-10	Batch ID: 64358	RunNo: 84404								
Prep Date: 12/7/2021	Analysis Date: 12/9/2021	SeqNo: 2965219 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	0.9833	0	91.0	80	120			
Toluene	0.92	0.049	0.9833	0	93.3	80	120			
Ethylbenzene	0.95	0.049	0.9833	0	97.0	80	120			
Xylenes, Total	2.8	0.098	2.950	0	95.1	80	120			

Qualifiers:

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

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

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QC SUMMARY REPORT

WO#: 2112372

Hall Environmental Analysis Laboratory, Inc.

21-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: 2112372-022ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-10	Batch ID: 64358	RunNo: 84404								
Prep Date: 12/7/2021	Analysis Date: 12/9/2021	SeqNo: 2965219			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.91		0.9833		92.2	70	130			

Surr: 4-Bromofluorobenzene										
Sample ID: 2112372-022amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: SW-10		Batch ID: 64358		RunNo: 84404						
Prep Date: 12/7/2021		Analysis Date: 12/9/2021		SeqNo: 2965220		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	0.9804	0	94.1	80	120	3.08	20	
Toluene	0.95	0.049	0.9804	0	96.4	80	120	3.03	20	
Ethylbenzene	0.98	0.049	0.9804	0	100	80	120	3.16	20	
Xylenes, Total	2.9	0.098	2.941	0	98.4	80	120	3.11	20	
Surr: 4-Bromofluorobenzene	0.87		0.9804		89.1	70	130	0	0	

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2112372

RcptNo: 1

Received By: Sean Livingston 12/7/2021 8:20:00 AM

Completed By: Sean Livingston 12/7/2021 9:01:08 AM

Reviewed By: KPA 12/07/21

Sean Livingston
Sean Livingston

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 $>0^{\circ}\text{C}$ 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: *JK 12/7/21*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good				



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

December 21, 2021

Becky Haskell
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX:

RE: Ross EG Federal Battery

OrderNo.: 2112630

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 16 sample(s) on 12/9/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-42

Project: Ross EG Federal Battery

Collection Date: 12/6/2021 8:30:00 AM

Lab ID: 2112630-001

Matrix: SOIL

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	600	60		mg/Kg	20	12/14/2021 5:38:49 PM	64488
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	44	9.9		mg/Kg	1	12/14/2021 9:45:30 AM	64424
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/14/2021 9:45:30 AM	64424
Surr: DNOP	104	70-130		%Rec	1	12/14/2021 9:45:30 AM	64424
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/13/2021 11:08:10 PM	64419
Surr: BFB	98.3	70-130		%Rec	1	12/13/2021 11:08:10 PM	64419
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/13/2021 11:08:10 PM	64419
Toluene	ND	0.047		mg/Kg	1	12/13/2021 11:08:10 PM	64419
Ethylbenzene	ND	0.047		mg/Kg	1	12/13/2021 11:08:10 PM	64419
Xylenes, Total	ND	0.094		mg/Kg	1	12/13/2021 11:08:10 PM	64419
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/13/2021 11:08:10 PM	64419

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

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

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Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-43

Project: Ross EG Federal Battery

Collection Date: 12/6/2021 8:35:00 AM

Lab ID: 2112630-002

Matrix: SOIL

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	510	60		mg/Kg	20	12/14/2021 6:16:02 PM	64488
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	130	9.7		mg/Kg	1	12/14/2021 9:54:57 AM	64424
Motor Oil Range Organics (MRO)	120	49		mg/Kg	1	12/14/2021 9:54:57 AM	64424
Surr: DNOP	87.7	70-130		%Rec	1	12/14/2021 9:54:57 AM	64424
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 12:17:56 AM	64419
Surr: BFB	96.6	70-130		%Rec	1	12/14/2021 12:17:56 AM	64419
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 12:17:56 AM	64419
Toluene	ND	0.047		mg/Kg	1	12/14/2021 12:17:56 AM	64419
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 12:17:56 AM	64419
Xylenes, Total	ND	0.094		mg/Kg	1	12/14/2021 12:17:56 AM	64419
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/14/2021 12:17:56 AM	64419

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

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

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

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Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Project: Ross EG Federal Battery

Lab ID: 2112630-003

Matrix: SOIL

Client Sample ID: BH-44

Collection Date: 12/6/2021 8:40:00 AM

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
Analyst: JMT							
EPA METHOD 300.0: ANIONS							
Chloride	1000	60		mg/Kg	20	12/14/2021 6:28:26 PM	64488
Analyst: BRM							
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	320	9.9		mg/Kg	1	12/15/2021 9:41:23 AM	64424
Motor Oil Range Organics (MRO)	250	49		mg/Kg	1	12/15/2021 9:41:23 AM	64424
Surr: DNOP	108	70-130		%Rec	1	12/15/2021 9:41:23 AM	64424
Analyst: NSB							
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 1:27:29 AM	64419
Surr: BFB	93.5	70-130		%Rec	1	12/14/2021 1:27:29 AM	64419
Analyst: NSB							
EPA METHOD 8021B: VOLATILES							
Benzene	ND	0.024		mg/Kg	1	12/14/2021 1:27:29 AM	64419
Toluene	ND	0.047		mg/Kg	1	12/14/2021 1:27:29 AM	64419
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 1:27:29 AM	64419
Xylenes, Total	ND	0.095		mg/Kg	1	12/14/2021 1:27:29 AM	64419
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	12/14/2021 1:27:29 AM	64419

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

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

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

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Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-45

Project: Ross EG Federal Battery

Collection Date: 12/6/2021 8:45:00 AM

Lab ID: 2112630-004

Matrix: SOIL

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	12/14/2021 7:05:39 PM	64488
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	360	100		mg/Kg	10	12/13/2021 5:29:47 PM	64424
Motor Oil Range Organics (MRO)	550	500		mg/Kg	10	12/13/2021 5:29:47 PM	64424
Surr: DNOP	0	70-130	S	%Rec	10	12/13/2021 5:29:47 PM	64424
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	12/14/2021 1:50:35 AM	64419
Surr: BFB	96.1	70-130		%Rec	5	12/14/2021 1:50:35 AM	64419
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	12/14/2021 1:50:35 AM	64419
Toluene	ND	0.23		mg/Kg	5	12/14/2021 1:50:35 AM	64419
Ethylbenzene	ND	0.23		mg/Kg	5	12/14/2021 1:50:35 AM	64419
Xylenes, Total	ND	0.46		mg/Kg	5	12/14/2021 1:50:35 AM	64419
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	12/14/2021 1:50:35 AM	64419

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Project: Ross EG Federal Battery

Lab ID: 2112630-005

Matrix: SOIL

Client Sample ID: BH-46

Collection Date: 12/6/2021 8:50:00 AM

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1100	60		mg/Kg	20	12/15/2021 3:11:47 AM	64507
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	370	49		mg/Kg	5	12/14/2021 1:06:00 PM	64424
Motor Oil Range Organics (MRO)	310	240		mg/Kg	5	12/14/2021 1:06:00 PM	64424
Surr: DNOP	71.9	70-130		%Rec	5	12/14/2021 1:06:00 PM	64424
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	12/14/2021 2:13:41 AM	64419
Surr: BFB	93.0	70-130		%Rec	5	12/14/2021 2:13:41 AM	64419
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	12/14/2021 2:13:41 AM	64419
Toluene	ND	0.24		mg/Kg	5	12/14/2021 2:13:41 AM	64419
Ethylbenzene	ND	0.24		mg/Kg	5	12/14/2021 2:13:41 AM	64419
Xylenes, Total	ND	0.47		mg/Kg	5	12/14/2021 2:13:41 AM	64419
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	5	12/14/2021 2:13:41 AM	64419

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Project: Ross EG Federal Battery

Lab ID: 2112630-006

Matrix: SOIL

Client Sample ID: BH-47

Collection Date: 12/6/2021 8:55:00 AM

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	940	60		mg/Kg	20	12/15/2021 3:24:08 AM	64507
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/14/2021 10:08:55 AM	64424
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/14/2021 10:08:55 AM	64424
Surr: DNOP	100	70-130		%Rec	1	12/14/2021 10:08:55 AM	64424
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 2:36:46 AM	64419
Surr: BFB	98.7	70-130		%Rec	1	12/14/2021 2:36:46 AM	64419
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 2:36:46 AM	64419
Toluene	ND	0.048		mg/Kg	1	12/14/2021 2:36:46 AM	64419
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 2:36:46 AM	64419
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2021 2:36:46 AM	64419
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	12/14/2021 2:36:46 AM	64419

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

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

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

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Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-48

Project: Ross EG Federal Battery

Collection Date: 12/6/2021 9:00:00 AM

Lab ID: 2112630-007

Matrix: SOIL

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1100	60		mg/Kg	20	12/15/2021 4:01:11 AM	64507
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/14/2021 10:32:20 AM	64424
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/14/2021 10:32:20 AM	64424
Surr: DNOP	93.8	70-130		%Rec	1	12/14/2021 10:32:20 AM	64424
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/14/2021 2:59:53 AM	64419
Surr: BFB	96.2	70-130		%Rec	1	12/14/2021 2:59:53 AM	64419
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/14/2021 2:59:53 AM	64419
Toluene	ND	0.046		mg/Kg	1	12/14/2021 2:59:53 AM	64419
Ethylbenzene	ND	0.046		mg/Kg	1	12/14/2021 2:59:53 AM	64419
Xylenes, Total	ND	0.092		mg/Kg	1	12/14/2021 2:59:53 AM	64419
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	12/14/2021 2:59:53 AM	64419

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

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

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

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Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-49

Project: Ross EG Federal Battery

Collection Date: 12/6/2021 9:05:00 AM

Lab ID: 2112630-008

Matrix: SOIL

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	ND	60		mg/Kg	20	12/15/2021 4:13:32 AM	64507
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	87	9.6		mg/Kg	1	12/13/2021 3:01:15 PM	64424
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	12/13/2021 3:01:15 PM	64424
Surr: DNOP	71.2	70-130		%Rec	1	12/13/2021 3:01:15 PM	64424
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 3:23:02 AM	64419
Surr: BFB	93.6	70-130		%Rec	1	12/14/2021 3:23:02 AM	64419
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 3:23:02 AM	64419
Toluene	ND	0.048		mg/Kg	1	12/14/2021 3:23:02 AM	64419
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 3:23:02 AM	64419
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2021 3:23:02 AM	64419
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	12/14/2021 3:23:02 AM	64419

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

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

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

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Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-50

Project: Ross EG Federal Battery

Collection Date: 12/6/2021 9:10:00 AM

Lab ID: 2112630-009

Matrix: SOIL

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
Analyst: LRN							
EPA METHOD 300.0: ANIONS	ND	60		mg/Kg	20	12/15/2021 4:25:52 AM	64507
Chloride							
Analyst: JME							
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS	30	10		mg/Kg	1	12/13/2021 3:22:31 PM	64424
Diesel Range Organics (DRO)	76	50		mg/Kg	1	12/13/2021 3:22:31 PM	64424
Motor Oil Range Organics (MRO)	71.5	70-130		%Rec	1	12/13/2021 3:22:31 PM	64424
Surr: DNOP							
Analyst: NSB							
EPA METHOD 8015D: GASOLINE RANGE	ND	4.8		mg/Kg	1	12/14/2021 3:46:10 AM	64419
Gasoline Range Organics (GRO)	95.0	70-130		%Rec	1	12/14/2021 3:46:10 AM	64419
Surr: BFB							
Analyst: NSB							
EPA METHOD 8021B: VOLATILES	ND	0.024		mg/Kg	1	12/14/2021 3:46:10 AM	64419
Benzene	ND	0.048		mg/Kg	1	12/14/2021 3:46:10 AM	64419
Toluene	ND	0.048		mg/Kg	1	12/14/2021 3:46:10 AM	64419
Ethylbenzene	ND	0.095		mg/Kg	1	12/14/2021 3:46:10 AM	64419
Xylenes, Total	101	70-130		%Rec	1	12/14/2021 3:46:10 AM	64419
Surr: 4-Bromofluorobenzene							

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

Qualifiers:

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

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

Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Project: Ross EG Federal Battery

Lab ID: 2112630-010

Matrix: SOIL

Client Sample ID: BH-51

Collection Date: 12/6/2021 10:00:00 AM

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	ND	60		mg/Kg	20	12/15/2021 4:38:13 AM	64507
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	99	9.7		mg/Kg	1	12/13/2021 3:43:47 PM	64424
Motor Oil Range Organics (MRO)	83	49		mg/Kg	1	12/13/2021 3:43:47 PM	64424
Surr: DNOP	71.6	70-130		%Rec	1	12/13/2021 3:43:47 PM	64424
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 4:09:16 AM	64419
Surr: BFB	93.2	70-130		%Rec	1	12/14/2021 4:09:16 AM	64419
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/14/2021 4:09:16 AM	64419
Toluene	ND	0.048		mg/Kg	1	12/14/2021 4:09:16 AM	64419
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 4:09:16 AM	64419
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2021 4:09:16 AM	64419
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	12/14/2021 4:09:16 AM	64419

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-14

Project: Ross EG Federal Battery

Collection Date: 12/6/2021 10:15:00 AM

Lab ID: 2112630-011

Matrix: SOIL

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
Analyst: LRN							
EPA METHOD 300.0: ANIONS	ND	60		mg/Kg	20	12/15/2021 9:24:42 AM	64515
Chloride							
Analyst: JME							
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS	21	9.7		mg/Kg	1	12/13/2021 4:05:03 PM	64424
Diesel Range Organics (DRO)	ND	48		mg/Kg	1	12/13/2021 4:05:03 PM	64424
Motor Oil Range Organics (MRO)	76.6	70-130		%Rec	1	12/13/2021 4:05:03 PM	64424
Surr: DNOP							
Analyst: mb							
EPA METHOD 8015D: GASOLINE RANGE	ND	4.7		mg/Kg	1	12/13/2021 7:25:00 PM	64419
Gasoline Range Organics (GRO)	94.9	70-130		%Rec	1	12/13/2021 7:25:00 PM	64419
Surr: BFB							
Analyst: mb							
EPA METHOD 8021B: VOLATILES	ND	0.024		mg/Kg	1	12/13/2021 7:25:00 PM	64419
Benzene	ND	0.047		mg/Kg	1	12/13/2021 7:25:00 PM	64419
Toluene	ND	0.047		mg/Kg	1	12/13/2021 7:25:00 PM	64419
Ethylbenzene	ND	0.095		mg/Kg	1	12/13/2021 7:25:00 PM	64419
Xylenes, Total	81.3	70-130		%Rec	1	12/13/2021 7:25:00 PM	64419
Surr: 4-Bromofluorobenzene							

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

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

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

Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-13

Project: Ross EG Federal Battery

Collection Date: 12/6/2021 10:20:00 AM

Lab ID: 2112630-012

Matrix: SOIL

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	110	60		mg/Kg	20	12/15/2021 10:01:46 AM	64515
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	24	9.7		mg/Kg	1	12/14/2021 10:55:51 AM	64424
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 10:55:51 AM	64424
Surr: DNOP	92.2	70-130		%Rec	1	12/14/2021 10:55:51 AM	64424
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/13/2021 7:45:00 PM	64419
Surr: BFB	92.2	70-130		%Rec	1	12/13/2021 7:45:00 PM	64419
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	12/13/2021 7:45:00 PM	64419
Toluene	ND	0.049		mg/Kg	1	12/13/2021 7:45:00 PM	64419
Ethylbenzene	ND	0.049		mg/Kg	1	12/13/2021 7:45:00 PM	64419
Xylenes, Total	ND	0.099		mg/Kg	1	12/13/2021 7:45:00 PM	64419
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	12/13/2021 7:45:00 PM	64419

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-15

Project: Ross EG Federal Battery

Collection Date: 12/6/2021 10:25:00 AM

Lab ID: 2112630-013

Matrix: SOIL

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	ND	60		mg/Kg	20	12/15/2021 10:14:07 AM	64515
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/14/2021 12:30:26 PM	64424
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 12:30:26 PM	64424
Surr: DNOP	89.5	70-130		%Rec	1	12/14/2021 12:30:26 PM	64424
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/13/2021 8:04:00 PM	64419
Surr: BFB	87.3	70-130		%Rec	1	12/13/2021 8:04:00 PM	64419
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	12/13/2021 8:04:00 PM	64419
Toluene	ND	0.049		mg/Kg	1	12/13/2021 8:04:00 PM	64419
Ethylbenzene	ND	0.049		mg/Kg	1	12/13/2021 8:04:00 PM	64419
Xylenes, Total	ND	0.098		mg/Kg	1	12/13/2021 8:04:00 PM	64419
Surr: 4-Bromofluorobenzene	79.9	70-130		%Rec	1	12/13/2021 8:04:00 PM	64419

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Project: Ross EG Federal Battery

Lab ID: 2112630-014

Matrix: SOIL

Client Sample ID: SW-16

Collection Date: 12/6/2021 10:30:00 AM

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	77	60		mg/Kg	20	12/15/2021 10:26:28 AM	64515
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	21	9.3		mg/Kg	1	12/13/2021 4:36:58 PM	64424
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/13/2021 4:36:58 PM	64424
Surr: DNOP	73.1	70-130		%Rec	1	12/13/2021 4:36:58 PM	64424
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/13/2021 8:24:00 PM	64419
Surr: BFB	88.5	70-130		%Rec	1	12/13/2021 8:24:00 PM	64419
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	12/13/2021 8:24:00 PM	64419
Toluene	ND	0.048		mg/Kg	1	12/13/2021 8:24:00 PM	64419
Ethylbenzene	ND	0.048		mg/Kg	1	12/13/2021 8:24:00 PM	64419
Xylenes, Total	ND	0.096		mg/Kg	1	12/13/2021 8:24:00 PM	64419
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	12/13/2021 8:24:00 PM	64419

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

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

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

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Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-52

Project: Ross EG Federal Battery

Collection Date: 12/6/2021 11:00:00 AM

Lab ID: 2112630-015

Matrix: SOIL

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	290	60		mg/Kg	20	12/15/2021 10:38:51 AM	64515
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	120	19		mg/Kg	2	12/14/2021 1:27:22 PM	64424
Motor Oil Range Organics (MRO)	120	96		mg/Kg	2	12/14/2021 1:27:22 PM	64424
Surr: DNOP	84.9	70-130		%Rec	2	12/14/2021 1:27:22 PM	64424
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/13/2021 8:44:00 PM	64419
Surr: BFB	88.3	70-130		%Rec	1	12/13/2021 8:44:00 PM	64419
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	12/13/2021 8:44:00 PM	64419
Toluene	ND	0.050		mg/Kg	1	12/13/2021 8:44:00 PM	64419
Ethylbenzene	ND	0.050		mg/Kg	1	12/13/2021 8:44:00 PM	64419
Xylenes, Total	ND	0.099		mg/Kg	1	12/13/2021 8:44:00 PM	64419
Surr: 4-Bromofluorobenzene	80.9	70-130		%Rec	1	12/13/2021 8:44:00 PM	64419

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

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

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

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Analytical Report

Lab Order 2112630

Date Reported: 12/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Project: Ross EG Federal Battery

Lab ID: 2112630-016

Matrix: SOIL

Client Sample ID: BH-16A

Collection Date: 12/6/2021 11:15:00 AM

Received Date: 12/9/2021 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3100	150		mg/Kg	50	12/16/2021 8:15:52 AM	64515
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	250	48		mg/Kg	5	12/14/2021 9:35:37 PM	64424
Motor Oil Range Organics (MRO)	280	240		mg/Kg	5	12/14/2021 9:35:37 PM	64424
Surr: DNOP	97.6	70-130		%Rec	5	12/14/2021 9:35:37 PM	64424
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/13/2021 9:03:00 PM	64419
Surr: BFB	90.4	70-130		%Rec	1	12/13/2021 9:03:00 PM	64419
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	12/13/2021 9:03:00 PM	64419
Toluene	ND	0.047		mg/Kg	1	12/13/2021 9:03:00 PM	64419
Ethylbenzene	ND	0.047		mg/Kg	1	12/13/2021 9:03:00 PM	64419
Xylenes, Total	ND	0.095		mg/Kg	1	12/13/2021 9:03:00 PM	64419
Surr: 4-Bromofluorobenzene	82.9	70-130		%Rec	1	12/13/2021 9:03:00 PM	64419

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

Qualifiers:

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

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

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

WO#: 2112630

21-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: MB-64507	SampType: mblk	TestCode: EPA Method 300.0: Anions									
Client ID: PBS	Batch ID: 64507	RunNo: 84543									
Prep Date: 12/14/2021	Analysis Date: 12/14/2021	SeqNo: 2971136 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID: LCS-64507	SampType: lcs	TestCode: EPA Method 300.0: Anions									
Client ID: LCSS	Batch ID: 64507	RunNo: 84543									
Prep Date: 12/14/2021	Analysis Date: 12/14/2021	SeqNo: 2971137 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	93.3	90	110				

Sample ID: MB-64488	SampType: mblk	TestCode: EPA Method 300.0: Anions									
Client ID: PBS	Batch ID: 64488	RunNo: 84525									
Prep Date: 12/14/2021	Analysis Date: 12/14/2021	SeqNo: 2971244 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID: LCS-64488	SampType: lcs	TestCode: EPA Method 300.0: Anions									
Client ID: LCSS	Batch ID: 64488	RunNo: 84525									
Prep Date: 12/14/2021	Analysis Date: 12/14/2021	SeqNo: 2971245 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	96.2	90	110				

Sample ID: MB-64515	SampType: mblk	TestCode: EPA Method 300.0: Anions									
Client ID: PBS	Batch ID: 64515	RunNo: 84573									
Prep Date: 12/15/2021	Analysis Date: 12/15/2021	SeqNo: 2972879 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID: LCS-64515	SampType: lcs	TestCode: EPA Method 300.0: Anions									
Client ID: LCSS	Batch ID: 64515	RunNo: 84573									
Prep Date: 12/15/2021	Analysis Date: 12/15/2021	SeqNo: 2972880 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	92.8	90	110				

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2112630

21-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: mb-64419	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64419	RunNo: 84489								
Prep Date: 12/10/2021	Analysis Date: 12/13/2021	SeqNo: 2969119 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: lcs-64419	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64419	RunNo: 84489								
Prep Date: 12/10/2021	Analysis Date: 12/13/2021	SeqNo: 2969120 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.6	78.6	131			
Surr: BFB	1100		1000		112	70	130			

Sample ID: 2112630-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-42	Batch ID: 64419	RunNo: 84489								
Prep Date: 12/10/2021	Analysis Date: 12/13/2021	SeqNo: 2969122 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.47	0	90.0	61.3	114			
Surr: BFB	1000		939.0		110	70	130			

Sample ID: 2112630-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-42	Batch ID: 64419	RunNo: 84489								
Prep Date: 12/10/2021	Analysis Date: 12/13/2021	SeqNo: 2969123 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.58	0	92.2	61.3	114	2.88	20	
Surr: BFB	1000		943.4		108	70	130	0	0	

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2112630

21-Dec-21

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: mb-64419		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: 64419		RunNo: 84489						
Prep Date: 12/10/2021		Analysis Date: 12/13/2021		SeqNo: 2969162		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Sum: 4-Bromofluorobenzene

Sample ID: LCS-64419	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64419	RunNo: 84489								
Prep Date: 12/10/2021	Analysis Date: 12/13/2021	SeqNo: 2969163 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.4	80	120			
Toluene	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Sample ID: 2112630-002amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: BH-43		Batch ID: 64419		RunNo: 84489						
Prep Date: 12/10/2021		Analysis Date: 12/14/2021		SeqNo: 2969167			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.024	0.9579	0	84.2	80	120	4.75	20	
Toluene	0.82	0.048	0.9579	0.01246	84.4	80	120	3.36	20	
Ethylbenzene	0.82	0.048	0.9579	0	86.1	80	120	4.32	20	
Xylenes, Total	2.4	0.096	2.874	0	84.7	80	120	3.88	20	
Surr: 4-Bromofluorobenzene	0.98		0.9579		102	70	130	0	0	

Con: 4-Bromofluorobenzene

Sample ID: 2112630-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-43	Batch ID: 64419	RunNo: 84531								
Prep Date: 12/10/2021	Analysis Date: 12/14/2021	SeqNo: 2970710 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.024	0.9653	0	79.6	80	120			S
Toluene	0.79	0.048	0.9653	0.01246	80.9	80	120			
Ethylbenzene	0.79	0.048	0.9653	0	81.8	80	120			
Xylenes, Total	2.3	0.097	2.896	0	80.9	80	120			
Surr: 4-Bromofluorobenzene	0.99		0.9653		103	70	130			

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2112630

RcptNo: 1

Received By: Juan Rojas 12/9/2021 10:05:00 AM

Completed By: Sean Livingston 12/9/2021 10:45:30 AM

Reviewed By: WDC 12/09/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: Sean 12/9/21

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good				
2	0.8	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard☒ Rush 5-day

Project Name:

Ross EG Federal Battery

Project #:

12563386

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 2 5.2-0-5.2

Cooler Temp (including C/F): 0.8-0-0.8

Date Time Matrix Sample Name

12/22/08 0830 S BH-42

0835 BH-43

0840 BH-44

0845 BH-45

0850 BH-46

0855 BH-47

0900 BH-48

0905 BH-49

0910 BH-50

1000 BH-51

1015 SW-14

1020 SW-13

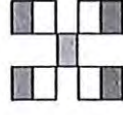
Date Time Relinquished by:

12/22/08 0800 Zach Comino bld

Date Time Relinquished by:

12/22/08 1900 Comino

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 LABORATORYwww.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMBs (8021)

TPH: 8015D (GRO / DRO / MRO)

8081 Pesticides / 8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride Method 300

Remarks: Please email: Chase_Settle@eogresources.com;
Tom.Larson@ghd.com; Zach.Comino@ghd.com
Matthew.Laughlin@ghd.com: Along with Becky Haskell
listed above.

Direct Bill to EOG Chase Settle



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

January 19, 2022

Becky Haskell
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX

RE: Ross EG Federal Battery

OrderNo.: 2201569

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/14/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2201569

Date Reported: 1/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-49A

Project: Ross EG Federal Battery

Collection Date: 1/12/2022 12:00:00 PM

Lab ID: 2201569-001

Matrix: SOIL

Received Date: 1/14/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	88	60		mg/Kg	20	1/14/2022 9:16:04 PM	65037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	1/17/2022 12:55:52 PM	65028
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/17/2022 12:55:52 PM	65028
Surr: DNOP	79.9	70-130		%Rec	1	1/17/2022 12:55:52 PM	65028
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/17/2022 1:38:31 PM	65023
Surr: BFB	98.1	70-130		%Rec	1	1/17/2022 1:38:31 PM	65023
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	1/17/2022 1:38:31 PM	65023
Toluene	ND	0.046		mg/Kg	1	1/17/2022 1:38:31 PM	65023
Ethylbenzene	ND	0.046		mg/Kg	1	1/17/2022 1:38:31 PM	65023
Xylenes, Total	ND	0.093		mg/Kg	1	1/17/2022 1:38:31 PM	65023
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/17/2022 1:38:31 PM	65023

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

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

B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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Analytical Report

Lab Order 2201569

Date Reported: 1/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-50A

Project: Ross EG Federal Battery

Collection Date: 1/12/2022 12:10:00 PM

Lab ID: 2201569-002

Matrix: SOIL

Received Date: 1/14/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	96	60		mg/Kg	20	1/14/2022 9:28:24 PM	65037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/17/2022 1:08:08 PM	65028
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/17/2022 1:08:08 PM	65028
Surr: DNOP	79.5	70-130		%Rec	1	1/17/2022 1:08:08 PM	65028
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/17/2022 2:02:06 PM	65023
Surr: BFB	98.6	70-130		%Rec	1	1/17/2022 2:02:06 PM	65023
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	1/17/2022 2:02:06 PM	65023
Toluene	ND	0.046		mg/Kg	1	1/17/2022 2:02:06 PM	65023
Ethylbenzene	ND	0.046		mg/Kg	1	1/17/2022 2:02:06 PM	65023
Xylenes, Total	ND	0.093		mg/Kg	1	1/17/2022 2:02:06 PM	65023
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	1/17/2022 2:02:06 PM	65023

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

Qualifiers:

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

B Analyte detected in the associated Method Blank
 E Estimated value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

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Analytical Report

Lab Order 2201569

Date Reported: 1/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-51A

Project: Ross EG Federal Battery

Collection Date: 1/12/2022 12:20:00 PM

Lab ID: 2201569-003

Matrix: SOIL

Received Date: 1/14/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	79	59		mg/Kg	20	1/14/2022 9:40:45 PM	65037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/17/2022 1:20:43 PM	65028
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/17/2022 1:20:43 PM	65028
Surr: DNOP	78.6	70-130		%Rec	1	1/17/2022 1:20:43 PM	65028
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/17/2022 2:25:30 PM	65023
Surr: BFB	98.3	70-130		%Rec	1	1/17/2022 2:25:30 PM	65023
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	1/17/2022 2:25:30 PM	65023
Toluene	ND	0.048		mg/Kg	1	1/17/2022 2:25:30 PM	65023
Ethylbenzene	ND	0.048		mg/Kg	1	1/17/2022 2:25:30 PM	65023
Xylenes, Total	ND	0.096		mg/Kg	1	1/17/2022 2:25:30 PM	65023
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/17/2022 2:25:30 PM	65023

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

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

Analytical Report

Lab Order 2201569

Date Reported: 1/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-52A

Project: Ross EG Federal Battery

Collection Date: 1/12/2022 12:30:00 PM

Lab ID: 2201569-004

Matrix: SOIL

Received Date: 1/14/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	61	60		mg/Kg	20	1/14/2022 9:53:06 PM	65037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/17/2022 1:33:21 PM	65028
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/17/2022 1:33:21 PM	65028
Surr: DNOP	82.2	70-130		%Rec	1	1/17/2022 1:33:21 PM	65028
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	1/17/2022 2:49:07 PM	65023
Surr: BFB	98.7	70-130		%Rec	5	1/17/2022 2:49:07 PM	65023
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	1/17/2022 2:49:07 PM	65023
Toluene	ND	0.24		mg/Kg	5	1/17/2022 2:49:07 PM	65023
Ethylbenzene	ND	0.24		mg/Kg	5	1/17/2022 2:49:07 PM	65023
Xylenes, Total	ND	0.48		mg/Kg	5	1/17/2022 2:49:07 PM	65023
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	5	1/17/2022 2:49:07 PM	65023

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

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

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

WO#: 2201569

19-Jan-22

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: MB-65037	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 65037	RunNo: 85168								
Prep Date: 1/14/2022	Analysis Date: 1/14/2022	SeqNo: 2997026 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-65037		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 65037		RunNo: 85168						
Prep Date: 1/14/2022		Analysis Date: 1/14/2022		SeqNo: 2997027			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2201569

19-Jan-22

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: MB-65028	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 65028	RunNo: 85194								
Prep Date: 1/14/2022	Analysis Date: 1/17/2022	SeqNo: 2998286 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.2		10.00		82.2	70	130			

Sample ID: LCS-65028	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 65028	RunNo: 85194								
Prep Date: 1/14/2022	Analysis Date: 1/17/2022	SeqNo: 2998287 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.7	68.9	135			
Surr: DNOP	4.0		5.000		80.0	70	130			

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2201569

19-Jan-22

Client: GHD Midland
Project: Ross EG Federal Battery

Sample ID: mb-65023	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 65023	RunNo: 85208								
Prep Date: 1/14/2022	Analysis Date: 1/17/2022	SeqNo: 2997544		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	70	130			

Sample ID: lcs-65023	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 65023	RunNo: 85208								
Prep Date: 1/14/2022	Analysis Date: 1/17/2022	SeqNo: 2997545		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.6	78.6	131			
Surr: BFB	1100		1000		107	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: A85236	RunNo: 85236								
Prep Date:	Analysis Date: 1/18/2022	SeqNo: 2998601		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB	950		1000		95.0	70	130			
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Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: A85236	RunNo: 85236								
Prep Date:	Analysis Date: 1/18/2022	SeqNo: 2998602		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB	1100		1000		107	70	130			
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Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2201569

19-Jan-22

Client: GHD Midland

Project: Ross EG Federal Battery

Sample ID: mb-65023	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 65023		RunNo: 85208							
Prep Date: 1/14/2022	Analysis Date: 1/17/2022		SeqNo: 2997591		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		112	70	130			

Sample ID: LCS-65023	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 65023			RunNo: 85208						
Prep Date: 1/14/2022	Analysis Date: 1/17/2022			SeqNo: 2997592			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.4	80	120			
Toluene	0.88	0.050	1.000	0	88.5	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	70	130			

Qualifiers:

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

B Analyte detected in the associated Method Blank
 E Estimated value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2201569

RcptNo: 1

Received By: Tracy Casarrubias 1/14/2022 7:30:00 AM

Completed By: Desiree Dominguez 1/14/2022 8:16:42 AM

Reviewed By: *Chm* 1/14/22

DP2

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 $>0^{\circ}\text{C}$ 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: *gnc/14/22*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.7	Good				
2	3.0	Good				
3	2.3	Good				

Appendix D

Confirmation Sampling Notifications

Becky Haskell

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, January 6, 2022 10:14 AM
To: Robert.Hamlet@state.nm.us
Cc: Artesia Regulatory; Chase Settle; Yvette Moore; Ashley Bravo; Katie Jamison
Subject: Ross EG Federal Battery Sampling Notification

Good morning,

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

Ross EG Federal Battery
Eddy County, NM

Sampling will begin at 8:00 a.m. on Wednesday, January 12, 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)



Becky Haskell

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, November 10, 2021 5:02 PM
To: Robert.Hamlet@state.nm.us; blm_nm_cfo_spill@blm.gov
Cc: Artesia Regulatory; Chase Settle; Yvette Moore; Ashley Bravo; Katie Jamison
Subject: Ross EG Federal Battery Sampling Notification

Good Afternoon,

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

Ross EG Federal Battery
2RP-4354 & 2RP-4509

Sampling will begin at 8:00 a.m. on Monday, November 15, 2021.

Thank you,

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



Becky Haskell

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Tuesday, November 16, 2021 2:48 PM
To: Robert.Hamlet@state.nm.us
Cc: Artesia Regulatory; Chase Settle; Yvette Moore; Ashley Bravo; Katie Jamison
Subject: Ross EG Federal Battery (2RP-4354 & 2RP-4509) Sampling Notification

Good Afternoon,

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

Ross EG Federal Battery
2RP-4354 & 2RP-4509

Sampling will begin at 8:00 a.m. on Friday, November 19, 2021.

Thank you,

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



Becky Haskell

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Monday, November 29, 2021 9:34 AM
To: Becky Haskell; Zach Comino
Subject: FW: Ross EG Federal Battery (2RP-4354 & 2RP-4509) Sampling Notification

FYI

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, November 29, 2021 8:30 AM
To: Robert.Hamlet@state.nm.us
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>; Ashley Bravo <Ashley_Bravo@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>
Subject: Ross EG Federal Battery (2RP-4354 & 2RP-4509) Sampling Notification

Good Morning,

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

Ross EG Federal Battery
2RP-4354 & 2RP-4509

Sampling will begin at 8:00 a.m. on Friday, December 3, 2021.

Thank you,

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



Appendix B

Remediation Plan

Chase Settle

From: Chase Settle
Sent: Wednesday, August 8, 2018 2:17 PM
To: mike.bratcher@state.nm.us; 'maria.pruett@state.nm.us'; Shelly Tucker
Cc: Bob Asher; Yvette Moore
Subject: Ross EG Federal Battery Work Plan 2RP-4354 & 2RP-4509
Attachments: Ross_EG_Federal_Battery_WorkPlan_2RP-4354_2RP-4509.pdf

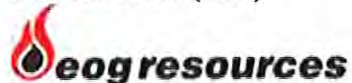
Please find attached the work plan for the below listed location.

Ross EG Federal Battery
660' FNL & 660' FWL
Section 20, T19S-R25E
Eddy County, New Mexico
2RP-4354 & 2RP-4509

Thank you,

Chase Settle, M.S.
Rep Safety & Environmental II

EOG Resources
105 S. 4th Street
Artesia, NM 88210
575-748-4171 (Office)
575-703-6537 (Cell)





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

August 8, 2018

Mr. Mike Bratcher
NMOCD District II
811 S. First St.
Artesia, NM 88210

Re: Ross EG Federal Battery
30-015-25903
Section 20, T19S-R25E
660' FNL & 660' FWL
Eddy County, New Mexico
2RP-4354 & 2RP-4509

Mr. Bratcher,

EOG Y Resources, Inc. is submitting the enclosed remediation work plan for the above referenced site. The plan is being submitted subsequent the C-141 reports dated August 21, 2017 and December 1, 2017.

If there are no objections with the scope of work described in the plan, EOG Y Resources, Inc. will have a contractor begin work on or after August 22, 2018.

If you have any questions, feel free to call me at (575) 748-4171.

Respectfully,

Chase Settle

Chase Settle
Rep Safety & Environmental II
EOG Y Resources, Inc.

Ross EG Federal Battery
Remediation Work Plan
2RP-4354 & 2RP-4509



August 8, 2018

EOG Y Resources, Inc.
Remediation Work Plan
Ross EG Federal Battery
Section 20, T19S-R25E
Eddy County, New Mexico
2RP-4354 & 2RP-4509
August 8, 2018

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Figure 1: Site Map with Sample Points

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Appendix A: NMOSE Well Log Information

Appendix B: USGS Groundwater Level Information

Appendix C: Soil Sample Laboratory Data

Appendix D: Form C-141 Initial



August 8, 2018

I. Location

From the intersection of US 285 and Rocking R Red Road, take Rocking R Red Road west for 6.5 miles, then turn south onto the lease road and follow for 0.3 mile, then turn west for 0.2 mile to the entrance of the location.

II. Background

On August 21, 2017, EOG Y Resources, Inc. submitted to the NMOCD District II office a Form C-141 for the release of 35 B/PW with 30 B/PW recovered. The affected area is approximately 255 feet by 15 feet within the primary berm of the facility and 65 feet by 20 feet outside of the primary berm, but within the secondary berm, at the northeast corner. The release was caused by the failure of an underground produced water transfer line. A vacuum truck was dispatched to recover the standing fluid and a backhoe crew was contracted to excavate visually impacted soils. Soil sampling activities were conducted on October 10 and 24, 2017, with samples sent to a NMOCD approved laboratory (results enclosed).

On December 1, 2017, EOG Y Resources, Inc. submitted to the NMOCD District II office a Form C-141 for the release of 10 B/PW with 7 B/PW recovered. The affected area overlaps area impacted by the 2RP-4354 release (approximately 255 feet by 15 feet within the primary berm), except this release did not breach the primary berm and there was an additional finger that followed the berm from the south tank that measures approximately 110 feet by 2 feet before tying back into the previously impacted area. The release was caused by the failure of a transfer pump causing the overflow of a produced water tank. A vacuum truck was dispatched to recover the standing fluid and a backhoe crew was contracted to excavate visually impacted soils, approximately 1 foot of soil excavated and sent to a NMOCD approved disposal facility during these activities. Soil sampling activities were conducted for vertical delineation on March 27 and April 10, 2018, with horizontal delineation sampling occurring on June 21, 2018.

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. Based on information from the New Mexico Office of the State Engineer (NMOSE) database and United States Geological Survey National Water Information System (USGS) regarding this location (Section 20, T19S-R25E), depth to groundwater is approximately 300 feet. The Chevron/Texaco Trend Map (Trend Map) has the same location (Section 20, T19S-R25E) to be approximately 150 feet to groundwater. However, based on the elevation of the location (3,587 ft.) and the elevation of the wells listed on USGS and NMOSE (3,585 ft.), the more accurate calculation of depth to groundwater appears to be 300 feet rather than 150 feet depicted by the Trend Map. Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of surface water being Brantley Lake at 8.4 miles away.

IV. NMOCD Assessment Criteria

The site assessment criteria is as follows:

Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

energy opportunity growth

Based on the assessment criteria, the NMOCD established RRALs for this site are:

Benzene	10 mg/kg
BTEX	50 mg/kg
TPH	2,500 mg/kg
Chlorides	20,000 mg/kg

V. Soils

The area consists of soils that are loam based topsoil that lay atop rock and clay layers residing approximately twelve (12) inches bgs that restrict further movement of contaminants into the subsurface.

VI. Scope of Work

Based on enclosed analytical results, a decrease in chlorides, and groundwater greater than 100 feet, EOG Y Resources, Inc. proposes to excavate the S1, S2, S3, and S8 areas to two (2) feet, the S6 area to two and a half (2.5) feet, the S5 and S7 areas to four (4) feet, and the S4 area to six (6) feet, hauling all excavated soil to a NMOCD approved facility for disposal. The areas within the battery will then be backfilled with caliche until flush with the remaining soil. The areas outside of the battery will be backfilled with caliche, then topsoil for the remaining top two (2) feet. EOG Y Resources, Inc. has identified the horizontal extents of contamination and will excavate to these points. Once the release area has been backfilled, the area outside of the battery will be seeded with the appropriate BLM mix to establish revegetation. The TPH & BTEX for the remaining soil are within the RRAL's for BTEX (50 mg/kg) and TPH (2500 mg/kg), no further analytical testing of TPH and/or BTEX will be conducted. When remediation work is completed a C-141 Final Report will be submitted to the NMOCD requesting closure of the site.

Table 1

Soil Analytical Data

Ross EG Federal Battery
Remediation Work Plan
2RP-4354 & 2RP-4509



August 8, 2018

Soil Analytical Data- 2RP-4354

Sample ID	Depth (ft. bgs)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH EXT DRO	Total TPH	Chlorides
S1-1'	1'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
S1-2'	2'	10/10/17	<0.050	0.161	0.509	2.98	3.65	86.3	927	143	1156.3	512
S1-3'	3'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
S1-4'	4'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96
S2-1'	1'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	88.3	12.5	100.8	1620
S2-2'	2'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	704
S2-3'	3'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	544
S2-4'	4'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	544
S3-1'	1'	10/10/17	<0.500	9.73	9.95	69.4	89.1	1140	5530	778	7448	1760
S3-2'	2'	10/10/17	<0.050	0.052	0.095	0.640	0.788	15.8	211	42.2	269	208
S3-3'	3'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16
S3-4'	4'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16
S4-1'	1'	10/10/17	67.5	525	225	457	1270	4820	8960	1270	<10.0	1460
S4-2'	2'	10/10/17	2.26	8.87	4.40	6.55	22.1	98.3	1260	417	1775.3	2040
S4-3'	3'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	26.9	10.9	37.8	720
S4-4'	4'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	960
S5-1'	1'	10/10/17	<0.050	<0.050	<0.050	0.156	<0.300	24.5	360	60.0	444.5	4960
S5-2'	2'	10/10/17	<0.050	1.32	1.09	9.24	11.7	207	1420	214	1841	3600
S5-3'	3'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2720
S5-4'	4'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96
S6-1'	1'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	11.4	327	51.3	389.7	1720
S6-2'	2'	10/10/17	<0.050	0.124	0.137	2.59	2.85	25.2	235	28.7	288.9	1410
S6-2.5	2.5'	10/24/17	-	-	-	-	-	-	-	-	-	608
BK-1'	1'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32
BK-2'	2'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48
BK-3'	3'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
BK-4'	4'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
BK-6'	6'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
BK-8'	8'	10/10/17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288

Ross EG Federal Battery
Remediation Work Plan
2RP-4354 & 2RP-4509



August 8, 2018

Soil Analytical Data- 2RP-4509

S1-1'	1'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1310
S1-2'	2'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
S1-3'	3'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384
S1-4'	4'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
S2-1'	1'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1570
S2-2'	2'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
S2-3'	3'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1140	422	1562	96
S2-4'	4'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	518	161	679	224
S4-1'	1'	3/27/18	<0.050	0.138	<0.050	<0.150	<0.300	276	3780	511	4567	4960
S4-2'	2'	3/27/18	<0.050	0.057	<0.050	0.830	0.887	50.5	747	85.5	920.5	4720
S4-3'	3'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	8260
S4-4'	4'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	5730
S4-5'	5'	4/10/18	-	-	-	-	-	-	-	-	-	1800
S4-6'	6'	4/10/18	-	-	-	-	-	-	-	-	-	640
S4-7'	7'	4/10/18	-	-	-	-	-	-	-	-	-	208
S4-8'	8'	4/10/18	-	-	-	-	-	-	-	-	-	208
S7-1'	1'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16	<10.0	16	2560
S7-2'	2'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2400
S7-3'	3'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1120
S7-4'	4'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
S8-1'	1'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	58.9	<10.0	<10.0	1150
S8-2'	2'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
S8-3'	3'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
S8-4'	4'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
S9-1'	1'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
S9-2'	2'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
S9-3'	3'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
S9-4'	4'	3/27/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
H1-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	93.4	52.0	145.4	80
H2-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.1	<10.0	22.1	320
H3-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	592
H4-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.7	<10.0	18.7	48
H5-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
H6-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	57.7	65.8	123.5	288
H7-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80
H8-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48
H9-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64
H10-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	151	28.8	179.8	160
H11-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48
H12-1'	1'	6/21/18	<0.050	0.068	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16
H13-1'	1'	6/21/18	<0.050	0.068	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
H14-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32
H15-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48
H16-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80
H17-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96
H18-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64
H19-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80
H20-1'	1'	6/21/18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160

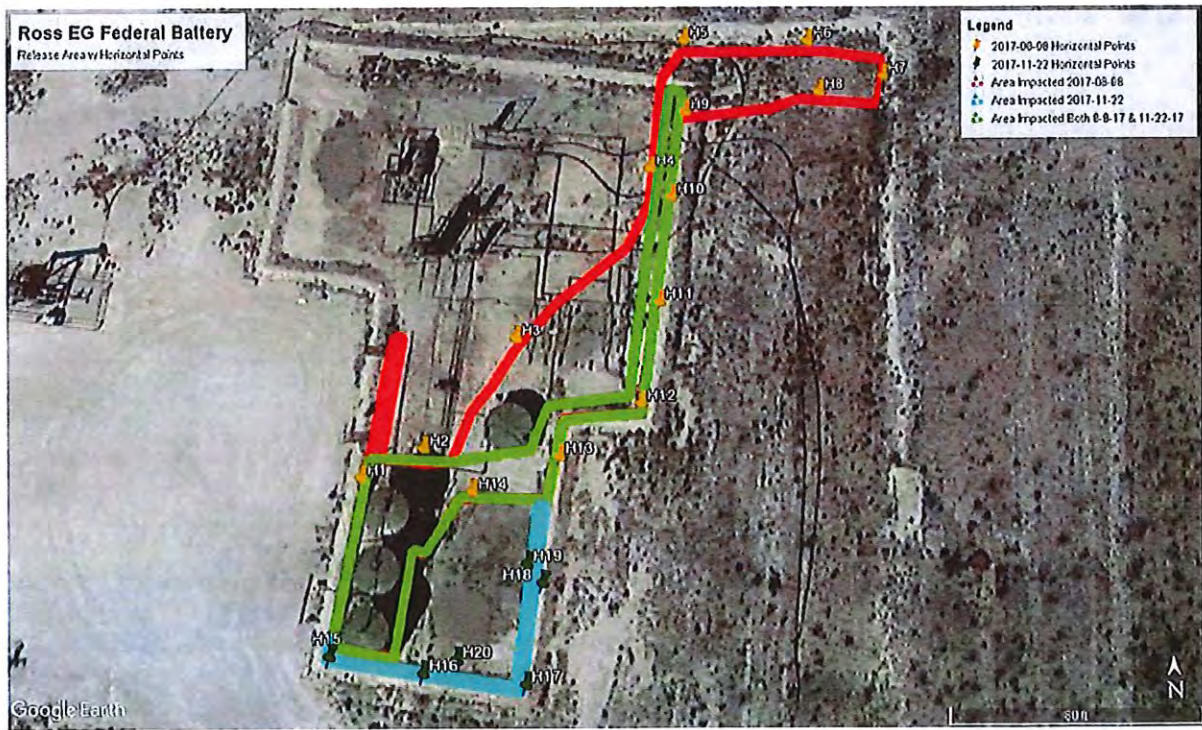
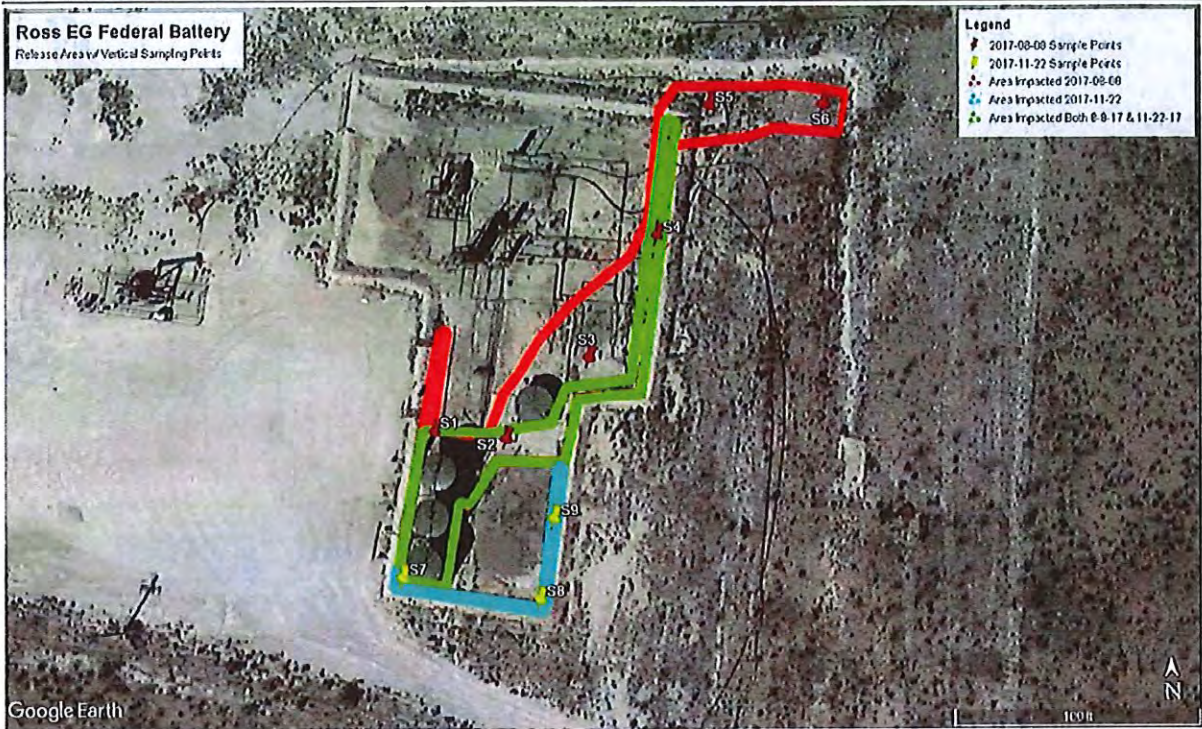
Figure 1

Site Map with Sample Points

Ross EG Federal Battery
Remediation Work Plan
2RP-4354 & 2RP-4509



August 8, 2018



Appendix A

NMOSE Well Log

8/20/2017 nmwrrs.ose.state.nm.us/ReportProxy?queryData=%7B"report"%3A"drillerLog"%2C%0A"BasinDiv"%3A"true"%2C%0A"Basin"%3A"true"%2C%0A"...



New Mexico Office of the State Engineer Wells with Well Log Information

(A CLW#### in the
FOD suite indicates the
FOD has been replaced &
no longer serves a water
right

(R-FOD has
been replaced,
O-orphaned,
C-the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	Code	Subbasin	County	Source	ED	Shallow	64164	Sec	19	Twp	19S	23E	X	Y	Distance	Start Date	Finish Date	Log File	Date	Depth	Depth	Water	Driller	License	Number
BA 04726													541825	36123901	859	12/03/1962	12/20/1962	11/00/1962		390	310			62	

Record Count: 1

UTMAD83 Radius Search (in meters):

Easting (X): 545582.49

Northing (Y): 3612795.16

Radius: 900

*UTM location was derived from PLSS - see help

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

8/20/17 2:07 PM

WELLS WITH WELL LOG INFORMATION

Ross EG Federal Battery
Remediation Work Plan
2RP-4354 & 2RP-4509



August 8, 2018

Appendix B

USGS Groundwater Information



National Water Information System: Web Interface
USGS Water Resources

USGS Home
Contact USGS
Search USGS

Data Category: Searchable Area: GO

Click for News Bulletins

Groundwater levels for New Mexico

Click for state-specific text

Site Description Information -- 2 sites match criteria

County = Eddy

lat_long_bounding_box =

Position	Latitude	Longitude
Corner 1	32.653561	-104.544639
Corner 2	32.645194	-104.494165

Coordinates are entered as Decimal Degrees. DMS values are converted to Decimal degrees using NAD83 as the datum. Make your bounding box bigger if you are using NAD27 Datum for your DMS values

Minimum number of 1 levels =

Agency	Site Number	Site Name	Dec. Lat.	Dec. Lon.	Cont. coord.	Dec. lat/long datum	State	County	Country	Land use	Well depth	Hole depth	Source of depth data	Field water-level measurements count
USGS	323856104311601	195.25E.19.272334	32.64844560	-104.52163210	U	NAD83	35	015	US	NESWHES0197195. R336,	317.00		A	1
USGS	323856104311101	195.25E.19.23431	32.64855676	-104.52024350	T	NAD83	35	015	US	SESWHES19 T195 R336	288			2

Questions about sites/data?

Feedback on this web site

Automated retrievals

Help

Data Tips

Explanation of terms

Subscribe for system changes

Home

Accessibility Plug-In FOIA Privacy Policies and Notices

U.S. Department of the Interior U.S. Geological Survey

Total Groundwater Levels -- 2 sites found

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/>

Page Contact Information New Mexico Water Data Website

Page Last Modified: 2017-05-28 16:55:05 EDT

0.31 0.37 redwood

USA.gov

Appendix C

Soil Sample Laboratory Data



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

October 18, 2017

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: ROSS EG FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/11/17 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S1 -1' (H702757-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2017	ND	2.10	105	2.00	1.68	
Toluene*	<0.050	0.050	10/15/2017	ND	1.90	95.2	2.00	3.53	
Ethylbenzene*	<0.050	0.050	10/15/2017	ND	1.93	96.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/15/2017	ND	5.78	96.3	6.00	2.55	
Total BTEX	<0.300	0.300	10/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/13/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/12/2017	ND	209	105	200	1.02	
DRO >C10-C28	<10.0	10.0	10/12/2017	ND	219	109	200	0.795	
EXT DRO >C28-C36	<10.0	10.0	10/12/2017	ND					

Surrogate: 1-Chlorooctane 82.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 79.8 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S1 -2' (H702757-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2017	ND	2.10	105	2.00	1.68	
Toluene*	0.161	0.050	10/15/2017	ND	1.90	95.2	2.00	3.53	
Ethylbenzene*	0.509	0.050	10/15/2017	ND	1.93	96.5	2.00	2.79	
Total Xylenes*	2.98	0.150	10/15/2017	ND	5.78	96.3	6.00	2.55	
Total BTEX	3.65	0.300	10/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 118 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	10/13/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	86.3	10.0	10/12/2017	ND	209	105	200	1.02	
DRO >C10-C28	927	10.0	10/12/2017	ND	219	109	200	0.795	
EXT DRO >C28-C36	143	10.0	10/12/2017	ND					

Surrogate: 1-Chlorooctane 97.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 94.5 % 34.7-157

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S1 -3' (H702757-03)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2017	ND	2.10	105	2.00	1.68	
Toluene*	<0.050	0.050	10/15/2017	ND	1.90	95.2	2.00	3.53	
Ethylbenzene*	<0.050	0.050	10/15/2017	ND	1.93	96.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/15/2017	ND	5.78	96.3	6.00	2.55	
Total BTEX	<0.300	0.300	10/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/16/2017	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/12/2017	ND	209	105	200	1.02	
DRO >C10-C28	<10.0	10.0	10/12/2017	ND	219	109	200	0.795	
EXT DRO >C28-C36	<10.0	10.0	10/12/2017	ND					

Surrogate: 1-Chlorooctane 78.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 78.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S1 -4' (H702757-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/16/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/12/2017	ND	209	105	200	1.02	
DRO >C10-C28	<10.0	10.0	10/12/2017	ND	219	109	200	0.795	
EXT DRO >C28-C36	<10.0	10.0	10/12/2017	ND					

Surrogate: 1-Chlorooctane 83.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 76.6 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S2 -1' (H702757-05)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	10/16/2017	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/12/2017	ND	209	105	200	1.02	
DRO >C10-C28	88.3	10.0	10/12/2017	ND	219	109	200	0.795	
EXT DRO >C28-C36	12.5	10.0	10/12/2017	ND					

Surrogate: 1-Chlorooctane 83.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.3 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S2 -2' (H702757-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	10/16/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/12/2017	ND	209	105	200	1.02	
DRO >C10-C28	<10.0	10.0	10/12/2017	ND	219	109	200	0.795	
EXT DRO >C28-C36	<10.0	10.0	10/12/2017	ND					

Surrogate: 1-Chlorooctane 85.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.0 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received:	10/11/2017	Sampling Date:	10/10/2017
Reported:	10/18/2017	Sampling Type:	Soil
Project Name:	ROSS EG FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	4354	Sample Received By:	Tamara Oldaker
Project Location:	ROSS EG FEDERAL BATTERY		

Sample ID: S2 -3' (H702757-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/16/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/12/2017	ND	209	105	200	1.02	
DRO >C10-C28	<10.0	10.0	10/12/2017	ND	219	109	200	0.795	
EXT DRO >C28-C36	<10.0	10.0	10/12/2017	ND					

Surrogate: 1-Chlorooctane 77.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 74.4 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S2 -4' (H702757-08)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/16/2017	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/12/2017	ND	209	105	200	1.02	
DRO >C10-C28	<10.0	10.0	10/12/2017	ND	219	109	200	0.795	
EXT DRO >C28-C36	<10.0	10.0	10/12/2017	ND					

Surrogate: 1-Chlorooctane 75.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 74.2 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S3 -1' (H702757-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/17/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	9.73	0.500	10/17/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	9.95	0.500	10/17/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	69.4	1.50	10/17/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	89.1	3.00	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	10/16/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1140	50.0	10/12/2017	ND	209	105	200	1.02	
DRO >C10-C28	5530	50.0	10/12/2017	ND	219	109	200	0.795	
EXT DRO >C28-C36	778	50.0	10/12/2017	ND					

Surrogate: 1-Chlorooctane 116 % 28.3-164

Surrogate: 1-Chlorooctadecane 128 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S3 -2' (H702757-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	0.052	0.050	10/18/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	0.095	0.050	10/18/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	0.640	0.150	10/18/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	0.788	0.300	10/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/16/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15.8	10.0	10/12/2017	ND	209	105	200	1.02	
DRO >C10-C28	211	10.0	10/12/2017	ND	219	109	200	0.795	
EXT DRO >C28-C36	42.2	10.0	10/12/2017	ND					

Surrogate: 1-Chlorooctane 81.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.1 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S3 -3' (H702757-11)

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	<0.050	0.050	10/18/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	<0.050	0.050	10/18/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	<0.150	0.150	10/18/2017	ND	5.33	88.9	6.00	0.809	
Total BTEx	<0.300	0.300	10/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/16/2017	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/12/2017	ND	209	105	200	1.02	
DRO >C10-C28	<10.0	10.0	10/12/2017	ND	219	109	200	0.795	
EXT DRO >C28-C36	<10.0	10.0	10/12/2017	ND					

Surrogate: 1-Chlorooctane 70.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 69.0 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S3 -4' (H702757-12)

BTEX 8021B			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	<0.050	0.050	10/18/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	<0.050	0.050	10/18/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	<0.150	0.150	10/18/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	<0.300	0.300	10/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIIC) 104 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/12/2017	ND	209	105	200	1.02	
DRO >C10-C28	<10.0	10.0	10/12/2017	ND	219	109	200	0.795	
EXT DRO >C28-C36	<10.0	10.0	10/12/2017	ND					

Surrogate: 1-Chlorooctane 82.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 76.7 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S4 -1' (H702757-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	67.5	5.00	10/18/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	525	5.00	10/18/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	225	5.00	10/18/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	457	15.0	10/18/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	1270	30.0	10/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4820	100	10/13/2017	ND	216	108	200	4.83	QM-07
DRO >C10-C28	8960	100	10/13/2017	ND	229	114	200	8.00	QM-07
EXT DRO >C28-C36	1270	100	10/13/2017	ND					

Surrogate: 1-Chlorooctane 129 % 28.3-164

Surrogate: 1-Chlorooctadecane 179 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S4 -2' (H702757-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.26	0.050	10/18/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	8.87	0.050	10/18/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	4.40	0.050	10/18/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	6.55	0.150	10/18/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	22.1	0.300	10/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	98.3	50.0	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	1260	50.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	417	50.0	10/13/2017	ND					

Surrogate: 1-Chlorooctane 75.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.5 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received:	10/11/2017	Sampling Date:	10/10/2017
Reported:	10/18/2017	Sampling Type:	Soil
Project Name:	ROSS EG FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	4354	Sample Received By:	Tamara Oldaker
Project Location:	ROSS EG FEDERAL BATTERY		

Sample ID: S4 -3' (H702757-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	<0.050	0.050	10/18/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	<0.050	0.050	10/18/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	<0.150	0.150	10/18/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	<0.300	0.300	10/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	26.9	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	10.9	10.0	10/13/2017	ND					

Surrogate: 1-Chlorooctane 79.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 81.0 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S4 -4' (H702757-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	<0.050	0.050	10/18/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	<0.050	0.050	10/18/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	<0.150	0.150	10/18/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	<0.300	0.300	10/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND					

Surrogate: 1-Chlorooctane 76.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 76.1 % 34.7-157

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EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S5 -1' (H702757-17)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	<0.050	0.050	10/18/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	<0.050	0.050	10/18/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	0.156	0.150	10/18/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	<0.300	0.300	10/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	24.5	10.0	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	360	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	60.0	10.0	10/13/2017	ND					

Surrogate: 1-Chlorooctane 74.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 77.2 % 34.7-157

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EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S5 -2' (H702757-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	1.32	0.050	10/18/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	1.09	0.050	10/18/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	9.24	0.150	10/18/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	11.7	0.300	10/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	207	10.0	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	1420	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	214	10.0	10/13/2017	ND					

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.4 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S5 -3' (H702757-19)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	<0.050	0.050	10/18/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	<0.050	0.050	10/18/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	<0.150	0.150	10/18/2017	ND	5.33	88.9	6.00	0.809	
Total BTEx	<0.300	0.300	10/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.0 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	12.1	10.0	10/13/2017	ND					

Surrogate: 1-Chlorooctane 72.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 74.6 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S5 -4' (H702757-20)

BTEX 8021B			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	10/18/2017	ND	1.92	96.0	2.00	1.23			
Toluene*	<0.050	0.050	10/18/2017	ND	1.74	87.1	2.00	0.803			
Ethylbenzene*	<0.050	0.050	10/18/2017	ND	1.76	88.1	2.00	1.01			
Total Xylenes*	<0.150	0.150	10/18/2017	ND	5.33	88.9	6.00	0.809			
Total BTEX	<0.300	0.300	10/18/2017	ND							

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/16/2017	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/13/2017	ND	216	108	200	4.83		
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00		
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND						

Surrogate: 1-Chlorooctane 75.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 74.8 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S6 -1' (H702757-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	<0.050	0.050	10/18/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	<0.050	0.050	10/18/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	<0.150	0.150	10/18/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	<0.300	0.300	10/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.4	10.0	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	327	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	51.3	10.0	10/13/2017	ND					

Surrogate: 1-Chlorooctane 79.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 77.9 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S6 -2' (H702757-22)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	0.124	0.050	10/18/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	0.137	0.050	10/18/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	2.59	0.150	10/18/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	2.85	0.300	10/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	25.2	10.0	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	235	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	28.7	10.0	10/13/2017	ND					

Surrogate: 1-Chlorooctane 79.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.2 % 34.7-157

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*=Accredited Analyte

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BK -1' (H702757-23)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2017	ND	1.92	96.0	2.00	1.23	
Toluene*	<0.050	0.050	10/18/2017	ND	1.74	87.1	2.00	0.803	
Ethylbenzene*	<0.050	0.050	10/18/2017	ND	1.76	88.1	2.00	1.01	
Total Xylenes*	<0.150	0.150	10/18/2017	ND	5.33	88.9	6.00	0.809	
Total BTEX	<0.300	0.300	10/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND					

Surrogate: 1-Chlorooctane 73.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 72.0 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BK -2' (H702757-24)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2017	ND	1.90	94.9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTEX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.4 % 72-148

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND					

Surrogate: 1-Chlorooctane 59.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 57.9 % 34.7-157

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Celest D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BK -3' (H702757-25)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2017	ND	1.90	94.9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTEX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND					

Surrogate: 1-Chlorooctane 67.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 65.1 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/11/2017
Reported: 10/18/2017
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4354
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 10/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BK -4' (H702757-26)

BTEX 8021B			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	10/17/2017	ND	1.90	94.9	2.00	1.59			
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87			
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234			
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359			
Total BTEX	<0.300	0.300	10/17/2017	ND							

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/13/2017	ND	216	108	200	4.83		
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00		
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND						

Surrogate: 1-Chlorooctane 69.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 68.1 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received:	10/11/2017	Sampling Date:	10/10/2017
Reported:	10/18/2017	Sampling Type:	Soil
Project Name:	ROSS EG FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	4354	Sample Received By:	Tamara Oldaker
Project Location:	ROSS EG FEDERAL BATTERY		

Sample ID: BK -6' (H702757-27)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2017	ND	1.90	94.9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTEX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND					

Surrogate: 1-Chlorooctane 68.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 67.1 % 34.7-157

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received:	10/11/2017	Sampling Date:	10/10/2017
Reported:	10/18/2017	Sampling Type:	Soil
Project Name:	ROSS EG FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	4354	Sample Received By:	Tamara Oldaker
Project Location:	ROSS EG FEDERAL BATTERY		

Sample ID: BK -8' (H702757-28)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2017	ND	1.90	94.9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/16/2017	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND					

Surrogate: 1-Chlorooctane 67.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 67.4 % 34.7-157

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



ORDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager Chase Settle

Project Name: Ross E&G Federal Battery

Project Manager: Chase Settle

Company Name **EOG Y Resources Inc.**

Project #: 4354

Company Address: 105 South 4th Street

Project Loc: Ross EG Federal Battery

City/State/Zip: Artesia, NM 88210

PO #: 205-0750

Telephone No: 575-748-4171

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: Chase.Settle@eoqresources.com

[illegible]



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project #: 4354

Ross EG Federal Battery

PO #: 205-0750

Report Format ☒ Standard

Chase.Settle@geogresources.com

Sample Containers Intact?	☒	N
VOCs Free of Headspace?	☒	N
Labels on container(s)	☒	N
Custody seals on container(s)	☒	N
Custody seals on cooler(s)	☒	N
Sample Hand Delivered	☒	N
by Sampler/Client Rep ?	☒	N
by Courier?	UPS	N
DHL	FedEx	Lone Star
Temperature Upon Receipt	28.4 / 3.05	°C



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company Name: EOG Y Resources Inc.

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature:

e-mail: Chase.Settle@eogresources.com

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205-0750

Project Name: Ross EG Federal Battery

Project #: 4354

Project Loc: Ross EG Federal Battery

(lab use only)
ORDER #:

LAB # (lab use only)
H708.757

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW=Groundwater S=Soil/Solid

NP=Non Potable Specify Other

TPH: 8015B EXTENDED

TPH: TX 1005 TX 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg So

Volatiles

Semivolatiles

BTEX: 8021B

RCl

N.O.R.M.

Chlorides

SAR

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Preservation & # of Containers

Matrix

Analyze For

TC/TP
TOTAL

Special Instructions:

TPH EXTENDED NEEDED!

Relinquished by:

Date

Time

Received by: Hobbs Curshaw

Date

Time

Laboratory Comments: Sample Containers Intact? ☒ VOCs Free of Headspace? ☒ Labels on container(s) ☒ Custody seals on container(s) ☒ Custody seals on cooler(s) ☒ Sample Hand Delivered by Sampler/Client Rep. ? ☒ by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star

Relinquished by:

Date

Time

Received by: ELOTT

Date

Time

Relinquished by:

Date

Time

Received by: ELOTT

Date

Time

Temperature Upon Receipt: 28.9/3.05 °C



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

November 01, 2017

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: ROSS EG FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/25/17 15:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received:	10/25/2017	Sampling Date:	10/24/2017
Reported:	11/01/2017	Sampling Type:	Soil
Project Name:	ROSS EG FEDERAL BATTERY	Sampling Condition:	** (See Notes)
Project Number:	4354	Sample Received By:	Tamara Oldaker
Project Location:	ROSS EG FEDERAL BATTERY		

Sample ID: S6- 2.5' (H702930-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	10/30/2017	ND	432	108	400	0.00		

*=Accredited Analyte

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company Name: EOG Y Resources Inc.

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature:

Fax No:

e-mail:

Chase.Settle@eoqresources.com

Report Format: ☒ Standard

☐ TRRP

☐ NPDES

PO #: 205-0750

Project Name:

Ross EG Federal Battery

Project #: 4354

Project Loc:

Ross EG Federal Battery

Page 4 of 4

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers		Matrix	Analyze For:	
S6-2.5'					10/24/2017	10:15 AM		1	Ico		DW=Drinking Water SL=Sludge	TPH: 8015B EXTENDED	
									HNO ₃		GW = Groundwater S=Sol/Solid	TPH: TX 1005 TX 1006	
									HCl		NP=Non-Polable Specify Other	Cations (Ca, Mg, Na, K)	
									H ₂ SO ₄			Anions (Cl, SO ₄ , Alkalinity)	
									NaOH			SAR / ESP / CEC	
									Na ₂ S ₂ O ₃			Metals: As Ag Ba Cd Cr Pb Hg So	
									None			Volatiles	
									Other (Specify)			Semivolatiles	
												BTEX: 8021B	
												RCl	
												N.O.R.M.	
												Chlorides	
												SAR	
												RUSH TAT (Pre-Schedule) 24, 40, 72 hrs	
												Standard TAT	

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	10/24/17	11:45 am	Haley Curran	10/25/17	3:39
Relinquished by:					
Relinquished by:					

Special Instructions:

Laboratory Comments:

Sample Containers Intact? ☒ N

VOCs Free of Headspace? ☒ N

Labels on container(s) ☒ N

Custody seals on container(s) ☒ N

Sample Hand Delivered by Sampler/Client Rep.? ☒ N

by Courier? ☒ N

UPS ☒ DHL ☒ FedEx ☒ Lone Star

Temperature Upon Receipt: 22.3°C



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

April 05, 2018

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: ROSS EG FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/28/18 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S1 - 1' (H800878-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	2.05	103	2.00	1.03	
Toluene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	0.715	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	1.89	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2018	ND	221	110	200	0.256	
DRO >C10-C28*	<10.0	10.0	03/29/2018	ND	231	116	200	0.0783	
EXT DRO >C28-C36	<10.0	10.0	03/29/2018	ND					

Surrogate: 1-Chlorooctane 84.3 % 41-142

Surrogate: 1-Chlorooctadecane 78.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S1 - 2' (H800878-02)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	2.05	103	2.00	1.03	
Toluene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	0.715	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	1.89	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2018	ND	221	110	200	0.256	
DRO >C10-C28*	<10.0	10.0	03/29/2018	ND	231	116	200	0.0783	
EXT DRO >C28-C36	<10.0	10.0	03/29/2018	ND					

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 81.9 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S1 - 3' (H800878-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	2.05	103	2.00	1.03	
Toluene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	0.715	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	1.89	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.10	102	6.00	1.71	
Total BTEx	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2018	ND	221	110	200	0.256	
DRO >C10-C28*	<10.0	10.0	03/29/2018	ND	231	116	200	0.0783	
EXT DRO >C28-C36	<10.0	10.0	03/29/2018	ND					

Surrogate: 1-Chlorooctane 94.2 % 41-142

Surrogate: 1-Chlorooctadecane 88.5 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S1 - 4' (H800878-04)

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	2.05	103	2.00	1.03	
Toluene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	0.715	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	1.89	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.10	102	6.00	1.71	
Total BTEx	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2018	ND	221	110	200	0.256	
DRO >C10-C28*	<10.0	10.0	03/29/2018	ND	231	116	200	0.0783	
EXT DRO >C28-C36	<10.0	10.0	03/29/2018	ND					

Surrogate: 1-Chlorooctane 93.8 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received:	03/28/2018	Sampling Date:	03/27/2018
Reported:	04/05/2018	Sampling Type:	Soil
Project Name:	ROSS EG FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	4509	Sample Received By:	Tamara Oldaker
Project Location:	ROSS EG FEDERAL BATTERY		

Sample ID: S2 - 1' (H800878-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	2.05	103	2.00	1.03	
Toluene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	0.715	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	1.89	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2018	ND	221	110	200	0.256	
DRO >C10-C28*	<10.0	10.0	03/29/2018	ND	231	116	200	0.0783	
EXT DRO >C28-C36	<10.0	10.0	03/29/2018	ND					

Surrogate: 1-Chlorooctane 55.1 % 41-142

Surrogate: 1-Chlorooctadecane 51.6 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S2 - 2' (H800878-06)

mg/kg			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	2.05	103	2.00	1.03	
Toluene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	0.715	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	1.89	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2018	ND	221	110	200	0.256	
DRO >C10-C28*	<10.0	10.0	03/29/2018	ND	231	116	200	0.0783	
EXT DRO >C28-C36	<10.0	10.0	03/29/2018	ND					

Surrogate: 1-Chlorooctane 83.7 % 41-142

Surrogate: 1-Chlorooctadecane 77.7 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S2 - 3' (H800878-07)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	2.05	103	2.00	1.03	
Toluene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	0.715	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	1.89	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	1140	10.0	04/04/2018	ND	208	104	200	2.23	QM-07
EXT DRO >C28-C36	422	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 79.7 % 41-142

Surrogate: 1-Chlorooctadecane 145 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S2 - 4' (H800878-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	2.05	103	2.00	1.03	
Toluene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	0.715	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	1.89	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	518	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	161	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S4 - 1' (H800878-09)

BTEX 8021B		mg/kg								Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	04/02/2018	ND	2.05	103	2.00	1.03			
Toluene*	0.138	0.050	04/02/2018	ND	2.10	105	2.00	0.715			
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	1.89			
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.10	102	6.00	1.71			
Total BTEX	<0.300	0.300	04/02/2018	ND							

Surrogate: 4-Bromofluorobenzene (PIE) 98.2 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	276	50.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	3780	50.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	511	50.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 138 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S4 - 2' (H800878-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2018	ND	2.05	103	2.00	1.03	
Toluene*	0.057	0.050	04/03/2018	ND	2.10	105	2.00	0.715	
Ethylbenzene*	<0.050	0.050	04/03/2018	ND	2.10	105	2.00	1.89	
Total Xylenes*	0.830	0.150	04/03/2018	ND	6.10	102	6.00	1.71	
Total BTEX	0.887	0.300	04/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 141 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	50.5	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	747	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	85.5	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 97.1 % 41-142

Surrogate: 1-Chlorooctadecane 135 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S4 - 3' (H800878-11)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	2.05	103	2.00	1.03	
Toluene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	0.715	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	2.10	105	2.00	1.89	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.10	102	6.00	1.71	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 81.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S4 - 4' (H800878-12)

BTEX 8021B			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09			
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657			
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566			
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461			
Total BTEX	<0.300	0.300	04/02/2018	ND							

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5730	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 86.6 % 41-142

Surrogate: 1-Chlorooctadecane 82.7 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S7 - 1' (H800878-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	16.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S7 - 2' (H800878-14)

BTEX 8021B		Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 100 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	04/02/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 86.6 % 41-142

Surrogate: 1-Chlorooctadecane 78.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S7 - 3' (H800878-15)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	04/02/2018	ND	432	108	400	0.00	QM-07

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 81.8 % 41-142

Surrogate: 1-Chlorooctadecane 74.8 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S7 - 4' (H800878-16)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/02/2018	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 80.0 % 41-142

Surrogate: 1-Chlorooctadecane 70.5 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S8 - 1' (H800878-17)

BTEX 8021B			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	04/02/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	58.9	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 91.8 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S8 - 2' (H800878-18)

BTEX 8021B			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09			
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657			
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566			
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461			
Total BTEX	<0.300	0.300	04/02/2018	ND							

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/02/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 85.2 % 41-142

Surrogate: 1-Chlorooctadecane 74.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S8 - 3' (H800878-19)

mg/kg			Analyzed By: MS						
BTEX 8021B									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/02/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 74.4 % 37.6-147

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S8 - 4' (H800878-20)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 100 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/02/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 74.9 % 37.6-147

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S9 - 1' (H800878-21)

mg/kg			Analyzed By: MS						
BTX 8021B									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	352	16.0	04/02/2018	ND	432	108	400	0.00			

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 78.4 % 41-142

Surrogate: 1-Chlorooctadecane 67.1 % 37.6-147

* = Accredited Analyte

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S9 - 2' (H800878-22)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTEX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/02/2018	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 79.9 % 41-142

Surrogate: 1-Chlorooctadecane 65.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S9 - 3' (H800878-23)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09		
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657		
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566		
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461		
Total BTEX	<0.300	0.300	04/02/2018	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/02/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 79.4 % 41-142

Surrogate: 1-Chlorooctadecane 64.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/05/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 03/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S9 - 4' (H800878-24)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTX	<0.300	0.300	04/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/02/2018	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					

Surrogate: 1-Chlorooctane 79.6 % 41-142

Surrogate: 1-Chlorooctadecane 76.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 27 of 29

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

Ross EG Federal Battery

Project #: 4509

Project Loc: Ross E&G Federal Battery

PO #: 205-0750

City/State/Zip: Artesia, NM 88210

Artesia, NM 88210

Telephone No: 575-748-4171

575-748-4171

Fax No:

Report Format ☒ Standard

Sampler Signature:

e-mail: Chase.Settle@eoqresources.com

(lab use only)

ORDER #: 14600878-

[illegible]



Page 28 of 29

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Project Name: Ross E&G Federal Battery

Company Name EOG Y Resources Inc.

Project #: 4509

Company Address: 105 South 4th Street

Project Loc: Ross EG Federal Battery

City/State/Zip: Artesia, NM 88210

PO #: 205-0750

Telephone No: 575-748-4171

Fax No:

Report Format ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: Chase.Settle@eoqresources.com

(lab use only)

ORDER #: 4806878

[illegible]



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

April 19, 2018

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: ROSS EG FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/12/18 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received:	04/12/2018	Sampling Date:	04/10/2018
Reported:	04/19/2018	Sampling Type:	Soil
Project Name:	ROSS EG FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	4509	Sample Received By:	Jodi Henson
Project Location:	ROSS EG FEDERAL BATTERY		

Sample ID: S4 - 5' (H801020-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	04/18/2018	ND	416	104	400	0.00		

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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April 19, 2018

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: ROSS EG FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/12/18 14:05.

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Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 04/12/2018
Reported: 04/19/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 04/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4 -6' (H801021-01)

Chloride, SM4500Cl-B		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/18/2018	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Caley D. Keene, Lab Director/Quality Manager



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April 19, 2018

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: ROSS EG FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/12/18 14:05.

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Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 04/12/2018
Reported: 04/19/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 04/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4 -7' (H801022-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/18/2018	ND	416	104	400	0.00	

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Notes and Definitions

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RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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April 19, 2018

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: ROSS EG FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/12/18 14:05.

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Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received:	04/12/2018	Sampling Date:	04/10/2018
Reported:	04/19/2018	Sampling Type:	Soil
Project Name:	ROSS EG FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	4509	Sample Received By:	Jodi Henson
Project Location:	ROSS EG FEDERAL BATTERY		

Sample ID: S4 -8' (H801023-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/18/2018	ND	416	104	400	0.00		

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

June 29, 2018

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: ROSS EG FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/25/18 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H1 - 1' (H801728-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.619	
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580	
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880	
Total BTEX	<0.300	0.300	06/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2018	ND	194	97.1	200	1.78	
DRO >C10-C28*	93.4	10.0	06/26/2018	ND	207	104	200	8.78	
EXT DRO >C28-C36	52.0	10.0	06/26/2018	ND					

Surrogate: 1-Chlorooctane 70.1 % 41-142

Surrogate: 1-Chlorooctadecane 64.6 % 37.6-147

* = Accredited Analyte

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H2 - 1' (H801728-02)

mg/kg			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.619	
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580	
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880	
Total BTEX	<0.300	0.300	06/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/26/2018	ND	194	97.1	200	1.78		
DRO >C10-C28*	22.1	10.0	06/26/2018	ND	207	104	200	8.78		
EXT DRO >C28-C36	<10.0	10.0	06/26/2018	ND						

Surrogate: 1-Chlorooctane 74.2 % 41-142

Surrogate: 1-Chlorooctadecane 66.8 % 37.6-147

* = Accredited Analyte

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Celest D. Keene

Celest D. Keene, Lab Director/Quality Manager



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EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H3 - 1' (H801728-03)

BTX 8021B			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20		
Toluene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.619		
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580		
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880		
Total BTX	<0.300	0.300	06/26/2018	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 69.8-142

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	06/26/2018	ND	432	108	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/26/2018	ND	194	97.1	200	1.78		
DRO >C10-C28*	<10.0	10.0	06/26/2018	ND	207	104	200	8.78		
EXT DRO >C28-C36	<10.0	10.0	06/26/2018	ND						

Surrogate: 1-Chlorooctane 73.3 % 41-142

Surrogate: 1-Chlorooctadecane 63.6 % 37.6-147

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H4 - 1' (H801728-04)

mg/kg			Analyzed By: MS						
BTEX 8021B									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.619	
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580	
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880	
Total BTEX	<0.300	0.300	06/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2018	ND	194	97.1	200	1.78	
DRO >C10-C28*	18.7	10.0	06/26/2018	ND	207	104	200	8.78	
EXT DRO >C28-C36	<10.0	10.0	06/26/2018	ND					

Surrogate: 1-Chlorooctane 76.7 % 41-142

Surrogate: 1-Chlorooctadecane 73.2 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H5 - 1' (H801728-05)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.619	
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580	
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880	
Total BTX	<0.300	0.300	06/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 113 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2018	ND	194	97.1	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/26/2018	ND	207	104	200	8.78	
EXT DRO >C28-C36	<10.0	10.0	06/26/2018	ND					

Surrogate: 1-Chlorooctane 73.6 % 41-142

Surrogate: 1-Chlorooctadecane 65.9 % 37.6-147

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CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H6 - 1' (H801728-06)

BTEX 8021B			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.619	
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580	
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880	
Total BTEX	<0.300	0.300	06/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2018	ND	194	97.1	200	1.78	
DRO >C10-C28*	57.7	10.0	06/26/2018	ND	207	104	200	8.78	
EXT DRO >C28-C36	65.8	10.0	06/26/2018	ND					

Surrogate: 1-Chlorooctane 69.4 % 41-142

Surrogate: 1-Chlorooctadecane 62.8 % 37.6-147

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105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H7 - 1' (H801728-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.619	
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580	
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880	
Total BTEX	<0.300	0.300	06/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2018	ND	194	97.1	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/26/2018	ND	207	104	200	8.78	
EXT DRO >C28-C36	<10.0	10.0	06/26/2018	ND					

Surrogate: 1-Chlorooctane 75.8 % 41-142

Surrogate: 1-Chlorooctadecane 67.2 % 37.6-147

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EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H8 - 1' (H801728-08)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.619	
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580	
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880	
Total BTEX	<0.300	0.300	06/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2018	ND	194	97.1	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/26/2018	ND	207	104	200	8.78	
EXT DRO >C28-C36	<10.0	10.0	06/26/2018	ND					

Surrogate: 1-Chlorooctane 76.3 % 41-142

Surrogate: 1-Chlorooctadecane 67.8 % 37.6-147

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CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H9 - 1' (H801728-09)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.619	
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580	
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880	
Total BTEX	<0.300	0.300	06/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2018	ND	194	97.1	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/26/2018	ND	207	104	200	8.78	
EXT DRO >C28-C36	<10.0	10.0	06/26/2018	ND					

Surrogate: 1-Chlorooctane 68.4 % 41-142

Surrogate: 1-Chlorooctadecane 61.6 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H10 - 1' (H801728-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.619	
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580	
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880	
Total BTEX	<0.300	0.300	06/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 117 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2018	ND	194	97.1	200	1.78	
DRO >C10-C28*	151	10.0	06/26/2018	ND	207	104	200	8.78	
EXT DRO >C28-C36	28.8	10.0	06/26/2018	ND					

Surrogate: 1-Chlorooctane 74.2 % 41-142

Surrogate: 1-Chlorooctadecane 75.3 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received:	06/25/2018	Sampling Date:	06/21/2018
Reported:	06/29/2018	Sampling Type:	Soil
Project Name:	ROSS EG FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	4509	Sample Received By:	Tamara Oldaker
Project Location:	ROSS EG FEDERAL BATTERY		

Sample ID: H11 - 1' (H801728-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.619	
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580	
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880	
Total BTEX	<0.300	0.300	06/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 114 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2018	ND	194	97.1	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/26/2018	ND	207	104	200	8.78	
EXT DRO >C28-C36	<10.0	10.0	06/26/2018	ND					

Surrogate: 1-Chlorooctane 73.4 % 41-142

Surrogate: 1-Chlorooctadecane 64.3 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H12 - 1' (H801728-12)

BTEX 8021B			mg/kg								Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20				
Toluene*	0.068	0.050	06/26/2018	ND	2.20	110	2.00	0.619				
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580				
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880				
Total BTEX	<0.300	0.300	06/26/2018	ND								

Surrogate: 4-Bromofluorobenzene (PIC) 116 % 69.8-142

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	16.0	16.0	06/26/2018	ND	432	108	400	3.77			

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/27/2018	ND	190	95.1	200	6.47		
DRO >C10-C28*	<10.0	10.0	06/27/2018	ND	186	93.0	200	5.30		
EXT DRO >C28-C36	<10.0	10.0	06/27/2018	ND						

Surrogate: 1-Chlorooctane 83.0 % 41-142

Surrogate: 1-Chlorooctadecane 73.6 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H13 - 1' (H801728-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.619	
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580	
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880	
Total BTEX	<0.300	0.300	06/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 117 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2018	ND	190	95.1	200	6.47	
DRO >C10-C28*	<10.0	10.0	06/27/2018	ND	186	93.0	200	5.30	
EXT DRO >C28-C36	<10.0	10.0	06/27/2018	ND					

Surrogate: 1-Chlorooctane 85.2 % 41-142

Surrogate: 1-Chlorooctadecane 77.4 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H14 - 1' (H801728-14)

BTEX 8021B			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2018	ND	2.18	109	2.00	1.20	
Toluene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.619	
Ethylbenzene*	<0.050	0.050	06/26/2018	ND	2.20	110	2.00	0.580	
Total Xylenes*	<0.150	0.150	06/26/2018	ND	6.44	107	6.00	0.880	
Total BTEX	<0.300	0.300	06/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2018	ND	170	85.1	200	2.75	
DRO >C10-C28*	<10.0	10.0	06/27/2018	ND	174	86.9	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	06/27/2018	ND					

Surrogate: 1-Chlorooctane 82.5 % 41-142

Surrogate: 1-Chlorooctadecane 75.4 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H15 - 1' (H801728-15)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2018	ND	1.79	89.5	2.00	2.50	
Toluene*	<0.050	0.050	06/27/2018	ND	1.79	89.7	2.00	2.20	
Ethylbenzene*	<0.050	0.050	06/27/2018	ND	1.80	89.8	2.00	2.47	
Total Xylenes*	<0.150	0.150	06/27/2018	ND	5.65	94.1	6.00	2.93	
Total BTEX	<0.300	0.300	06/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 104 % 69.8-142

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2018	ND	170	85.1	200	2.75	
DRO >C10-C28*	<10.0	10.0	06/27/2018	ND	174	86.9	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	06/27/2018	ND					

Surrogate: 1-Chlorooctane 97.9 % 41-142

Surrogate: 1-Chlorooctadecane 88.8 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H16 - 1' (H801728-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2018	ND	1.79	89.5	2.00	2.50	
Toluene*	<0.050	0.050	06/27/2018	ND	1.79	89.7	2.00	2.20	
Ethylbenzene*	<0.050	0.050	06/27/2018	ND	1.80	89.8	2.00	2.47	
Total Xylenes*	<0.150	0.150	06/27/2018	ND	5.65	94.1	6.00	2.93	
Total BTEX	<0.300	0.300	06/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2018	ND	170	85.1	200	2.75	
DRO >C10-C28*	<10.0	10.0	06/27/2018	ND	174	86.9	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	06/27/2018	ND					

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 81.4 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H17 - 1' (H801728-17)

BTEX 8021B			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	06/27/2018	ND	1.79	89.5	2.00	2.50			
Toluene*	<0.050	0.050	06/27/2018	ND	1.79	89.7	2.00	2.20			
Ethylbenzene*	<0.050	0.050	06/27/2018	ND	1.80	89.8	2.00	2.47			
Total Xylenes*	<0.150	0.150	06/27/2018	ND	5.65	94.1	6.00	2.93			
Total BTEX	<0.300	0.300	06/27/2018	ND							

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 69.8-142

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/26/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2018	ND	170	85.1	200	2.75	
DRO >C10-C28*	<10.0	10.0	06/27/2018	ND	174	86.9	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	06/27/2018	ND					

Surrogate: 1-Chlorooctane 83.2 % 41-142

Surrogate: 1-Chlorooctadecane 73.5 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H18 - 1' (H801728-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2018	ND	1.79	89.5	2.00	2.50	
Toluene*	<0.050	0.050	06/27/2018	ND	1.79	89.7	2.00	2.20	
Ethylbenzene*	<0.050	0.050	06/27/2018	ND	1.80	89.8	2.00	2.47	
Total Xylenes*	<0.150	0.150	06/27/2018	ND	5.65	94.1	6.00	2.93	
Total BTEX	<0.300	0.300	06/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2018	ND	170	85.1	200	2.75	
DRO >C10-C28*	<10.0	10.0	06/27/2018	ND	174	86.9	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	06/27/2018	ND					

Surrogate: 1-Chlorooctane 89.9 % 41-142

Surrogate: 1-Chlorooctadecane 79.0 % 37.6-147

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Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H19 - 1' (H801728-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2018	ND	1.79	89.5	2.00	2.50	
Toluene*	<0.050	0.050	06/27/2018	ND	1.79	89.7	2.00	2.20	
Ethylbenzene*	<0.050	0.050	06/27/2018	ND	1.80	89.8	2.00	2.47	
Total Xylenes*	<0.150	0.150	06/27/2018	ND	5.65	94.1	6.00	2.93	
Total BTEX	<0.300	0.300	06/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/26/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2018	ND	170	85.1	200	2.75	
DRO >C10-C28*	<10.0	10.0	06/27/2018	ND	174	86.9	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	06/27/2018	ND					

Surrogate: 1-Chlorooctane 89.4 % 41-142

Surrogate: 1-Chlorooctadecane 78.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2018
Reported: 06/29/2018
Project Name: ROSS EG FEDERAL BATTERY
Project Number: 4509
Project Location: ROSS EG FEDERAL BATTERY

Sampling Date: 06/21/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H20 - 1' (H801728-20)

BTEX 8021B			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2018	ND	1.79	89.5	2.00	2.50		
Toluene*	<0.050	0.050	06/27/2018	ND	1.79	89.7	2.00	2.20		
Ethylbenzene*	<0.050	0.050	06/27/2018	ND	1.80	89.8	2.00	2.47		
Total Xylenes*	<0.150	0.150	06/27/2018	ND	5.65	94.1	6.00	2.93		
Total BTEX	<0.300	0.300	06/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 69.8-142

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/26/2018	ND	432	108	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/27/2018	ND	170	85.1	200	2.75		
DRO >C10-C28*	<10.0	10.0	06/27/2018	ND	174	86.9	200	3.11		
EXT DRO >C28-C36	<10.0	10.0	06/27/2018	ND						

Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 72.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Received by *OCD*: 3/31/2022 1:29:50 PM



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Project Name: Ross E&G Federal Battery

Company Name EOG Y Resources Inc.

Project #: 4509

Company Address: 105 South 4th Street

Project Loc: Ross EG Federal Battery

City/State/Zip: Artesia, NM 88210

PO #: 205-0750

Telephone No: 575-748-4171

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail:

Chase.Settle@geogresources.com

Analyze For:

(lab use only)

ORDER# H801728

[illegible]

Appendix D

Form C-141 Initials

NM OIL CONSERVATION
ARTESIA DISTRICT

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

AUG 22 2017

Form C-141
Revised April 3, 2017

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

RECEIVED to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action
OPERATOR

NAB1723536168

☒ Initial Report ☐ Final Report

Name of Company EOG Y Resources, Inc.	25575	Contact Chase Settle
Address 104 S. 4th Street Artesia NM 88210		Telephone No. 575-748-1471
Facility Name Ross EG Federal #3 Battery		Facility Type Well
Surface Owner Private	Mineral Owner Federal	API No. 30-015-25903

LOCATION OF RELEASE

Unit Letter D	Section 20	Township 19S	Range 25E	Feet from the 660	North/South Line North	Feet from the 660	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	----------------------	---------------------------	----------------------	------------------------	----------------

Latitude 32.6519089 Longitude -104.5134125 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 35 B/PW	Volume Recovered 30 B/PW
Source of Release Transfer line	Date and Hour of Occurrence 08/08/2017; 6:58 AM	Date and Hour of Discovery 08/08/17; 6:58 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher, Crystal Weaver, Shelly Tucker	
By Whom? Robert Asher	Date and Hour August 8, 2017; 11:00 AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.* N/A

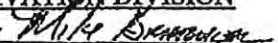
Describe Cause of Problem and Remedial Action Taken.*

There was a failure of an underground produced water transfer line, which led to the release of produced water. A vacuum truck was called to recover standing fluid and a backhoe was dispatched to excavate impacted soils.

Describe Area Affected and Cleanup Action Taken.*

The impacted area was approximately 255 feet by 15 feet within the primary berm of the battery and 65 feet by 20 feet outside of the primary berm, but within the secondary berm, at the northeast corner. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. Depth to Ground Water: >100' (300', Section 20, T19S, R25E, per NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Chase Settle	Signed By: 	
Title: Rep Safety & Environmental II	Approved by Environmental Specialist:	
E-mail Address: chase.settle@eogresources.com	Approval Date: 8/22/17	Expiration Date: N/A
Date: August 21, 2017	Conditions of Approval: See attached	Attached: ☐ 4354
Phone: 575-748-4171		

* Attach Additional Sheets If Necessary *NOTE: As a condition of approval, in addition to the attached COA document, chloride data will be used to determine remediation requirements.

NM OIL CONSERVATION

ARTESIA DISTRICT

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

DEC 01 2017

State of New Mexico

Energy Minerals and Natural Resources

NM OIL CONSERVATION

ARTESIA DISTRICT

DEC 01 2017

Form C-141
Revised April 3, 2017

RECEIVED

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

OPERATOR

NAB1734036870

☒ Initial Report ☐ Final Report

Name of Company EOG Y Resources, Inc.	25525	Contact Chase Settle
Address 104 S. 4 th Street Artesia NM 88210		Telephone No. 575-748-1471
Facility Name Ross EG Federal Battery	(API for Ross EG Federal # 3)	Facility Type Battery
Surface Owner Private	Mineral Owner Federal	API No. 30-015-25903

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	20	19S	25E	660	North	660	West	Bddy

Latitude 32.6519089 Longitude -104.5134125 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 10 B/PW	Volume Recovered 7 B/PW
Source of Release Produced Water Tank	Date and Hour of Occurrence 11/22/2017; AM	Date and Hour of Discovery 11/22/2017; 11:43 AM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully. * N/A

Describe Cause of Problem and Remedial Action Taken. * There was a failure of a transfer pump causing the overflow of a produced water tank, leading to the release. A vacuum truck was called to recover standing fluid and a backhoe was dispatched to excavate impacted soils.

Describe Area Affected and Cleanup Action Taken. *

The impacted area was identical to the area impacted by the 2RP-4354 release (255 feet by 15 feet within the primary battery berm), except this release did not breach the primary berm and there was an additional finger that followed the berm from the south tank that measured approximately 110 by 2 feet before tying back into the previously impacted and re-impacted release area. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTX (chlorides for documentation). If initial analytical results for TPH & BTX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. Depth to Ground Water: >100' (300', Section 20, T19S, R25E, per NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC 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.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Chase Settle	Approved by Environmental Specialist: <i>Accepted for record only</i>	
Title: Rep Safety & Environmental II	Approval Date: 12/4/17	Expiration Date: N/A
E-mail Address: chase.settle@eogresources.com	Conditions of Approval: see attached	Attached: 20P-4509
Date: December 1, 2017	Phone: 575-748-4171	

* Attach Additional Sheets If Necessary

Appendix C

Characterization Plans

Chase Settle

From: Chase Settle
Sent: Friday, September 29, 2017 11:10 AM
To: Bratcher, Mike, EMNRD; 'Weaver, Crystal, EMNRD'
Cc: Katie Parker; Bob Asher; Yvette Moore; Darlene Chavarria
Subject: Characterization Plan- 2RP-4354 Ross EG Federal Battery
Attachments: Characterization_Plan_2RP-4354_Ross_Battery.pdf

Please find attached the Characterization Plan for the below listed location.

Ross EG Federal Battery
660' FNL & 660' FWL
Section 20, T19S-R25E
Eddy County, New Mexico
2RP-4354

Thank you,

Chase Settle, M.S.

Rep Safety & Environmental II

EOG Resources
105 S. 4th Street
Artesia, NM 88210
575-748-4171 (Office)
575-703-6537 (Cell)





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

EOG Y Resources, Inc.

Characterization Plan

Ross EG Federal Battery

30-015-25903

Section 20, T19S-R25E

Eddy County, New Mexico

August 31, 2017

2RP-4354

I. Location

From the intersection of US 285 and Rocking R Red Road, take Rocking R Red Road west for 6.5 miles, then turn south onto the lease road and follow for 0.3 mile, then turn west for 0.2 mile to the entrance of the location.

II. Background

On August 22, 2017, EOG Y Resources, Inc. submitted to the NMOCD District II office a Form C-141 for the release of 35 B/PW with 30 B/PW recovered. The affected area is approximately 255 feet by 15 feet within the primary berm of the facility and 65 feet by 20 feet outside of the primary berm, but within the secondary berm, at the northeast corner. The release was caused by the failure of an underground produced water transfer line. A vacuum truck was dispatched to recover the standing fluid and a backhoe crew was contracted to excavate visually impacted soils.

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. Based on information from the New Mexico Office of the State Engineer (NMOSE) database and United States Geological Survey National Water Information System (USGS) regarding this location (Section 20, T19S-R25E), depth to groundwater is approximately 300 feet. The Chevron/Texaco Trend Map (Trend Map) has the same location (Section 20, T19S-R25E) to be approximately 150 feet to groundwater. However, based on the elevation of the location (3,587 ft.) and the elevation of the wells listed on USGS and NMOSE (3,585 ft.), the more accurate calculation of depth to groundwater appears to be 300 feet rather than 150 feet depicted by the Trend Map. Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of surface water being Brantley Lake at 8.4 miles away.

IV. NMOCD Ranking Criteria

The ranking for this site is zero (0) based on the following:

Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

Based on the ranking criteria, the NMOCD established RRALs for this site are:

Benzene	10 ppm
BTEX	50 ppm
TPH	5,000 ppm
Chlorides	No established RRAL

V. Sampling Procedure

Vertical delineation samples will be collected at 6 sample points (S1-S6) within the release area. Samples will be collected at 1', 2', 3', and 4' below grade surface (bgs). Due to the nature of the release (produced water), the first set of vertical delineation hole soil samples (1' and 2' bgs) will be analyzed for Benzene, BTEX, TPH extended, and chlorides. If these samples are below RRALs for Benzene, BTEX, and TPH extended, no further sampling for these constituents will occur, only chloride will be analyzed with any further soil sampling if the initial sample analyses warrant further delineation. All samples will be sent to a NMOCD approved laboratory for analysis. Based on those results, additional vertical samples may be collected at the same sample points until the RRAL for a site ranking 0 has been met.

Horizontal delineation samples will be collected at 14 sample points (H1-H14) at what is believed to be the outer edge of the release area. Samples will be collected at 1' bgs and analysis will be run for the identified constituents determined from vertical delineation sampling to have caused impaction to the soil at the site. If a sample point is determined to be impacted by the release, a new sample will be collected moving out further until an area without impaction is located. Once located, samples will be taken to collaborate the impaction path to the next sample point in the sequence.

As a baseline for all sampling analytical data, background samples will be collected up gradient from the release to the southwest. The point remains on the production pad in an area that has no known release impaction. This creates less damage to the landowner's private surface by keeping the activities on the production pad and reduces the vegetative damage that would otherwise be created by moving off of location to collect background samples in the adjoining pasture.

Figure 1

Site Map

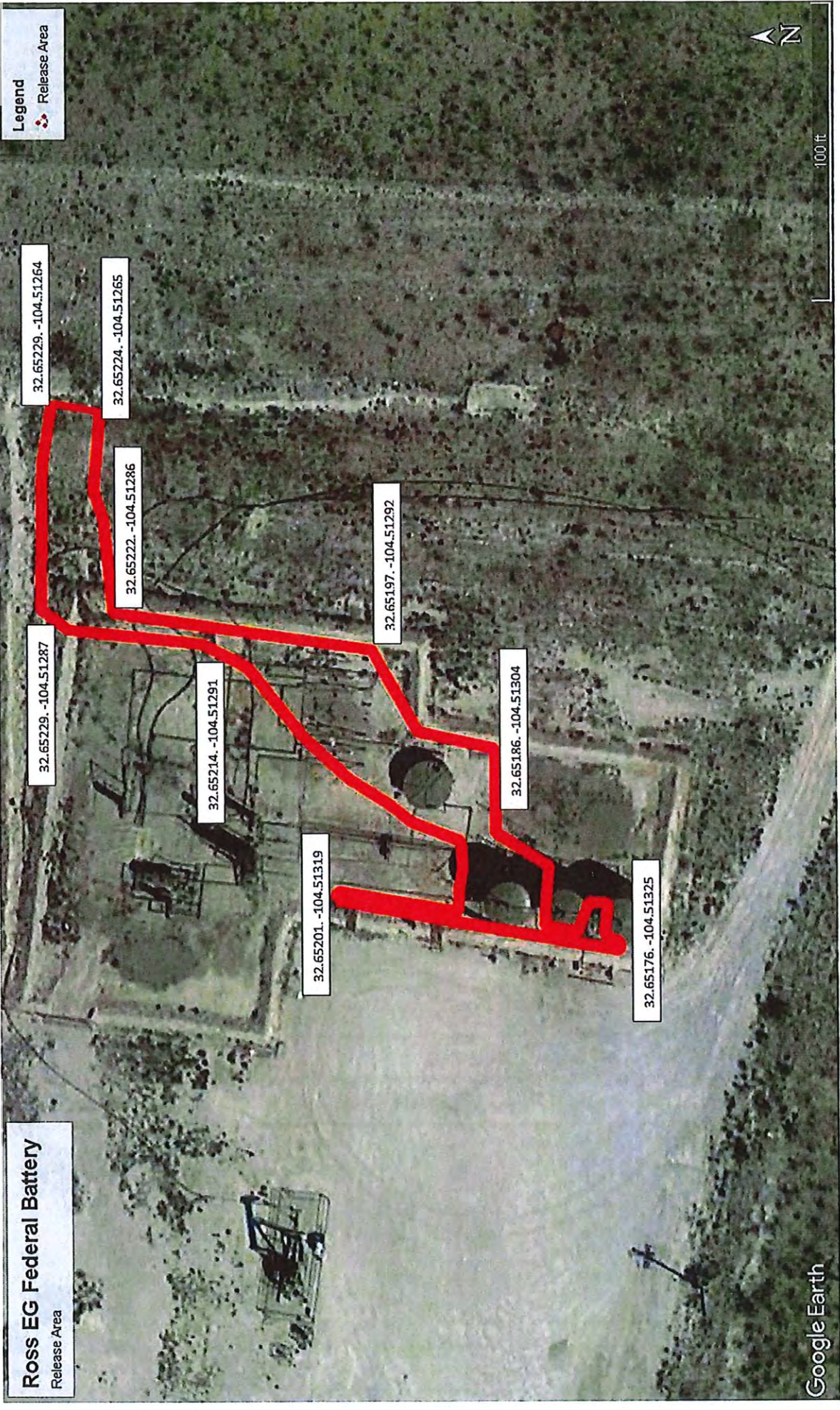


Figure 2

Vertical Sample Points

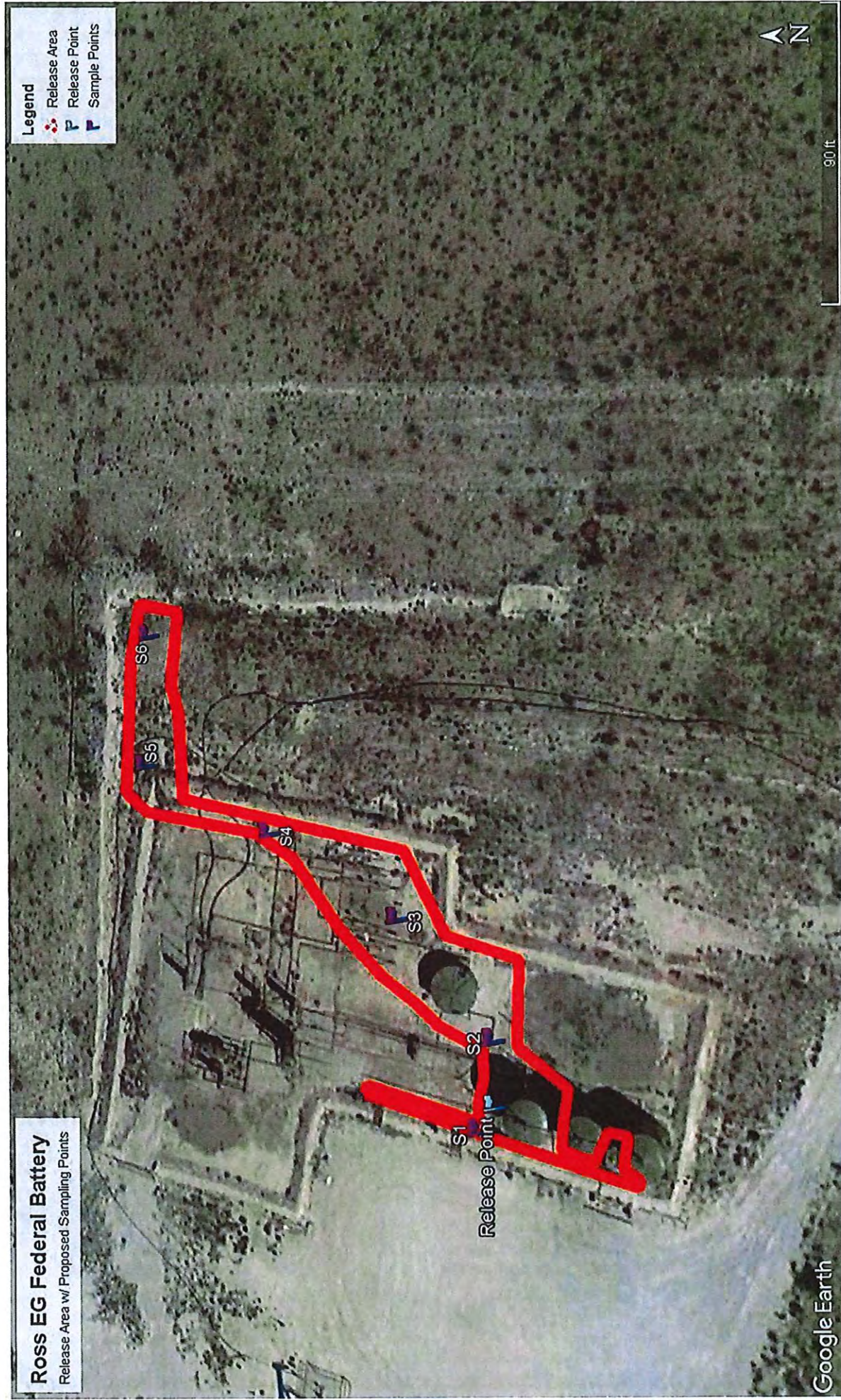


Figure 3

Horizontal Sample Points

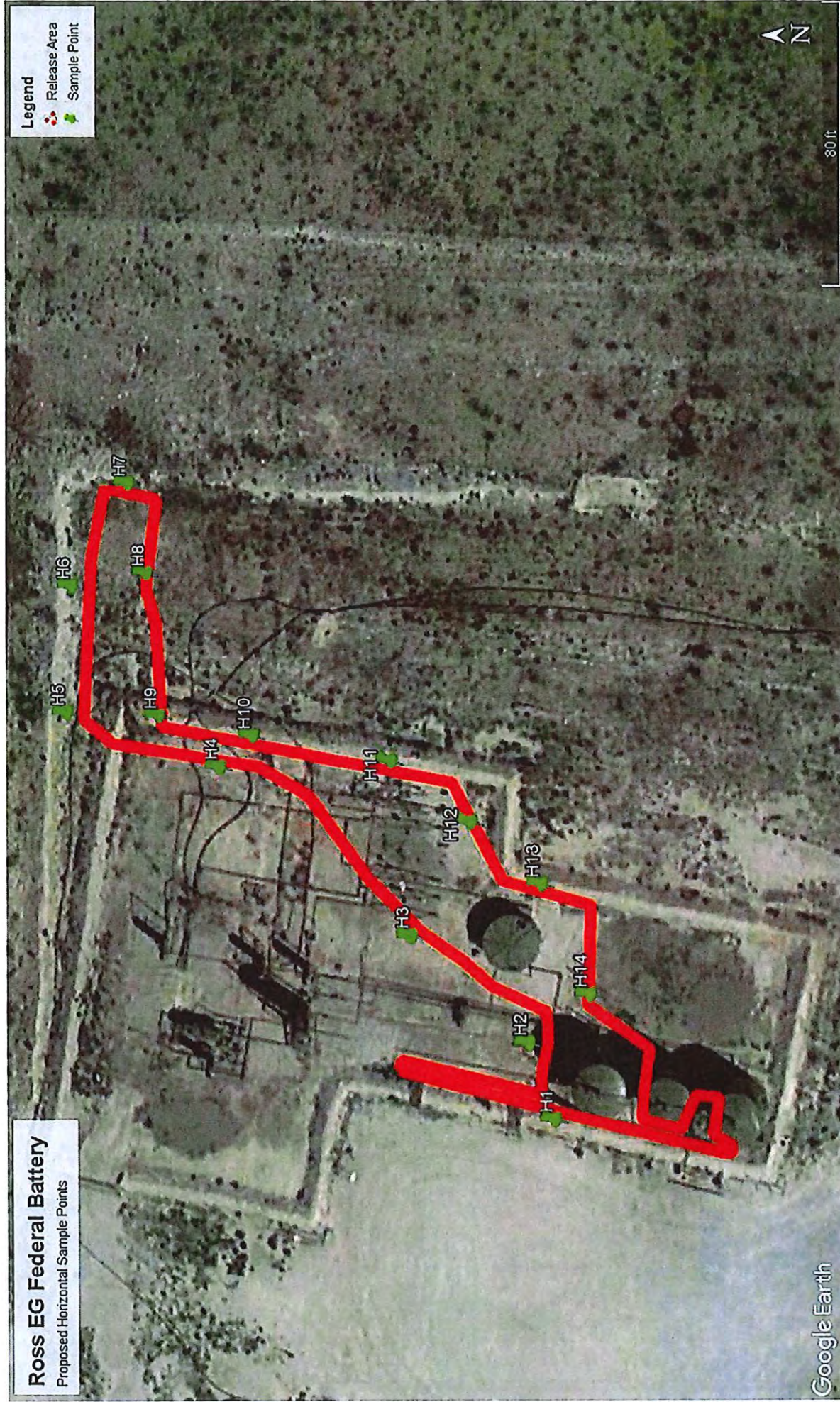
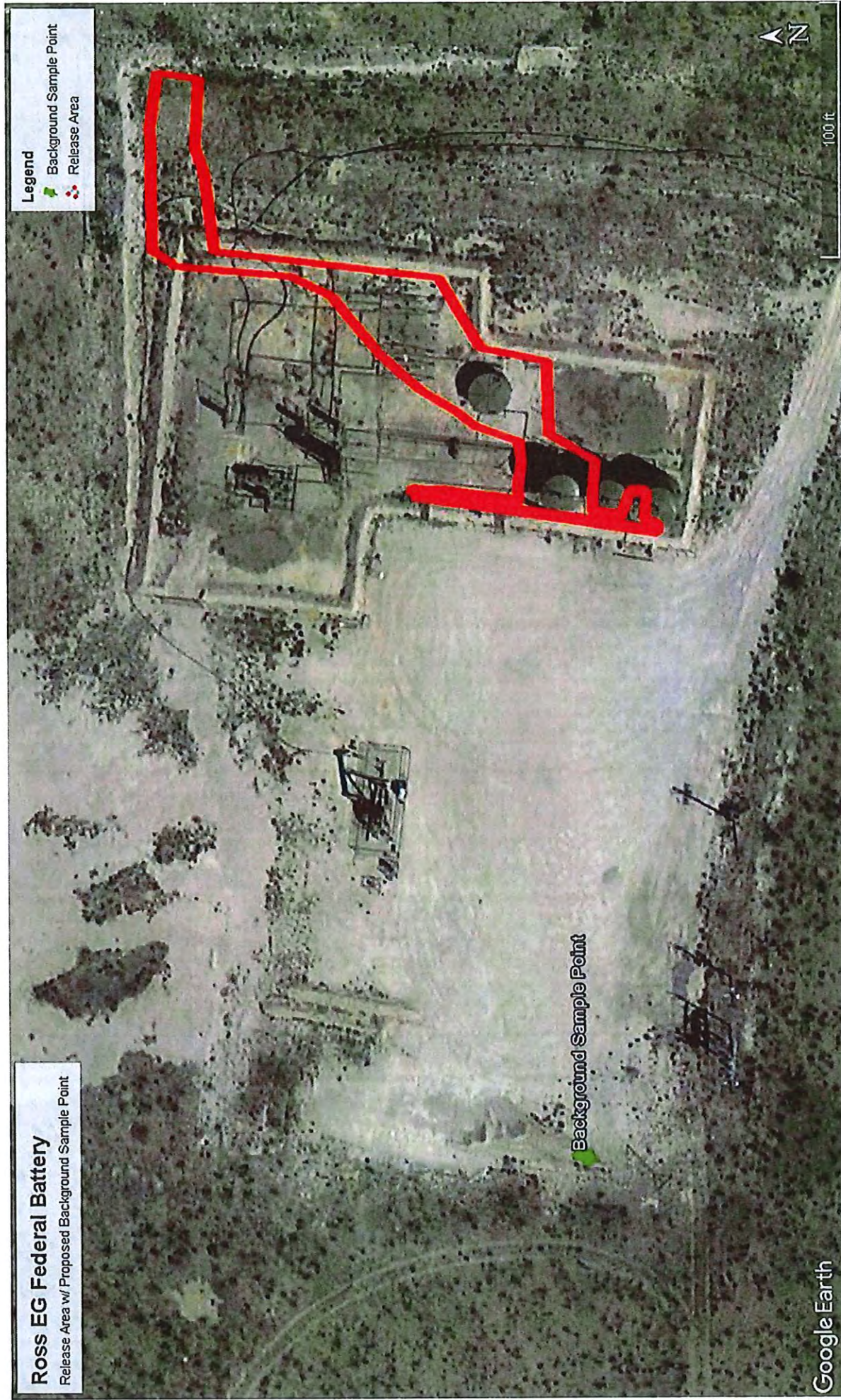


Figure 4

Background Sample Point



Photos







Appendix A

NMOSE Well Log

8/28/2017 nmwrrs.ose.state.nm.us/ReportProxy?queryData=%7B"report"%3A"drillerLog"%2C%0A"BasinDiv"%3A"true"%2C%0A"Basin"%3A""%2C%0A"...



New Mexico Office of the State Engineer Wells with Well Log Information

(A CLW/#### in the
POD suffix indicates the
POD has been replaced &
no longer serves a water
right

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

closed)		POD		(quarters are subject to change)					(RADSS DATA ENTRY)											Licens
POD Number		Code	Subbasin	County	Source	6416 4	See	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	Numbr	
RA 0476				ED	Shallow	3	2	19	19S 25E	544825	3612390*	859	12/05/1962	12/20/1962	11/08/1962	390	310		62	

Record Count: 1

UTM NAD83 Radius Search (in meters):

Eastings (X): 545582.49

Northings (Y): 3612795.16

Radius: 900

*UTM location was derived from PLSS - see Help

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

8/28/17 2:07 PM

WELLS WITH WELL LOG INFORMATION

Appendix B

USGS Groundwater Level Information



National Water Information System: Web Interface

USGS Water Resources

USGS Home
Contact USGS
Search USGS

Data Category: Geographic Area:

Click for News Bulletins

Groundwater levels for New Mexico

Click for state-specific text

Site Description Information -- 2 sites match criteria

County = Eddy

lat_long_bounding_box =	Position	Latitude	Longitude
Corner 1		32.653561	-104.544639
Corner 2		32.645194	-104.494185

Coordinates are entered as Decimal Degrees. DMS values are converted to Decimal degrees using NAD83 as the datum. Make your bounding box bigger if you are using NAD27 Datum for your DMS values

Minimum number of 1 levels =

Agency	Site Number	Site Name	Dec. Lat.	Dec. Lon.	Coor. Spher.	Dec. lat/long datum	State	County	Country	Land net	Well depth	Hole depth	Source of depth data	Field water-level measurements count
USGS	323854104311601	19S.25E.19.232334	32.64844560	-104.52163240	U	NAD83	35	015	US	NESWNE019T19S. R25E.	317.00		A	1
USGS	323858104311101	19S.25E.19.23431	32.64955676	-104.52024350	T	NAD83	35	015	US	SESWNE19 T19S R25E	288			2

Questions about sites/data?

Feedback on this web site

Automated retrievals

Help

Data Tips

Explanation of terms

Subscribe for system changes

News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater levels for New Mexico

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/>

Page Contact Information: New Mexico Water Data Mainliner

Page Last Modified: 2017-08-28 16:55:05 EDT

0.38 0.37 nwdw01



Appedix C

Form C-141 Initial

NM OIL CONSERVATION
ARTESIA DISTRICT

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

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

AUG 22 2017

Form C-141
 Revised April 3, 2017

RECEIVED to appropriate District Office in
 accordance with 19.15.29 NMAC.

Release Notification and Corrective Action
OPERATOR

NAB1723536168

☒ Initial Report ☐ Final Report

Name of Company EOG Y Resources, Inc.	25575	Contact Chase Settle
Address 104 S. 4 th Street Artesia NM 88210		Telephone No. 575-748-1471
Facility Name Ross EG Federal #3 Battery		Facility Type Well

Surface Owner Private	Mineral Owner Federal	API No. 30-015-25903
--------------------------	--------------------------	-------------------------

LOCATION OF RELEASE

Unit Letter D	Section 20	Township 19S	Range 25E	Feet from the 660	North/South Line North	Feet from the 660	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	----------------------	---------------------------	----------------------	------------------------	----------------

Latitude 32.6519089 Longitude -104.5134125 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 35 B/PW	Volume Recovered 30 B/PW
Source of Release Transfer line	Date and Hour of Occurrence 08/08/2017; 6:58 AM	Date and Hour of Discovery 08/08/17; 6:58 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher, Crystal Weaver, Shelly Tucker	
By Whom? Robert Asher	Date and Hour August 8, 2017; 11:00 AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.* N/A

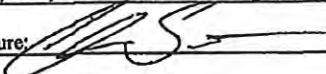
Describe Cause of Problem and Remedial Action Taken.*

There was a failure of an underground produced water transfer line, which led to the release of produced water. A vacuum truck was called to recover standing fluid and a backhoe was dispatched to excavate impacted soils.

Describe Area Affected and Cleanup Action Taken.*

The impacted area was approximately 255 feet by 15 feet within the primary berm of the battery and 65 feet by 20 feet outside of the primary berm, but within the secondary berm, at the northeast corner. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. Depth to Ground Water: >100' (300', Section 20, T19S, R25E, per NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Chase Settle	Signed By <u>Mike Bratcher</u>	
Title: Rep Safety & Environmental II	Approved by Environmental Specialist:	
E-mail Address: chase.settle@egresources.com	Approval Date: <u>8/22/17</u>	Expiration Date: <u>N/A</u>
Date: August 21, 2017	Conditions of Approval: <u>See attached</u>	Attached ☐ <u>JKP-4354</u>
Phone: 575-748-4171		

* Attach Additional Sheets If Necessary *NOTE: As a condition of approval, in addition to the attached COA document, chloride data will be used to determine remediation requirements.

Chase Settle

From: Chase Settle
Sent: Thursday, January 11, 2018 2:34 PM
To: 'Bratcher, Mike, EMNRD'; Weaver, Crystal, EMNRD; Shelly Tucker
Cc: Bob Asher; Yvette Moore
Subject: Characterization Plan 2RP-4509
Attachments: Characterization_Plan_2RP-4509_Ross_Battery.pdf

Please find attached the Characterization Plan for the below listed site.

Ross EG Federal Battery
 660' FNL & 660' FWL
 Section 20, T19S-R25E
 Eddy County, New Mexico
 2RP-4509

Thank you,

Chase Settle, M.S.

Rep Safety & Environmental II

EOG Resources
 105 S. 4th Street
 Artesia, NM 88210
 575-748-4171 (Office)
 575-703-6537 (Cell)



From: Weaver, Crystal, EMNRD [mailto:Crystal.Weaver@state.nm.us]
Sent: Wednesday, January 10, 2018 3:08 PM
To: Yvette Moore <Yvette_Moore@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; stucker@blm.gov
Cc: Chase Settle <Chase_Settle@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>
Subject: RE: Ross EG Federal Battery C-141

** External email. Use caution.**

RE: EOG * Ross EG Fed. #3 * 30-015-25903 * 32RP-4509

Yvette,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval (COA). The OCD tracking number for this event is 2RP-4509, please refer to this tracking number on any and all

submissions sent in to the OCD. Please remit a site characterization plan (see COA document included in attachment) or advise OCD of plan of action by no later than 1/17/18.

Thank you,

Crystal Weaver

Environmental Specialist
OCD – Artesia District II
811 S. 1st Street
Artesia, NM 88210
Office: 575-748-1283 ext. 101
Cell: 575-840-5963
Fax: 575-748-9720

From: Yvette Moore [mailto:Yvette_Moore@eogresources.com]

Sent: Friday, December 1, 2017 12:02 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; stucker@blm.gov

Cc: Chase Settle <Chase_Settle@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>

Subject: Ross EG Federal Battery C-141

Please find the attached C-141 Initial for the location listed below:

Ross EG Federal Battery
30-015-25903
660' FNL 7 660' FWL
Section 20, T19S-R25E
Eddy County, New Mexico

Thanks,



Yvette Moore

Rep Safety & Environmental II
Safety & Environmental Department
Artesia Division

(575)748-4223

yvette_moore@eogresources.com



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

EOG Y Resources, Inc.

Characterization Plan

Ross EG Federal Battery

30-015-25903

Section 20, T19S-R25E

Eddy County, New Mexico

January 11, 2018

2RP-4509

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V.	Sampling Procedure.....	2

Figures:

Figure 1: Site Map

Figure 2: Site Map with Vertical Sample Points

Figure 3: Site Map with Horizontal Sample Points

Figure 4: Site Map with Background Sample Point

Photos**Appendices:**

Appendix A: NMOSE Well Log Information

Appendix B: USGS Groundwater Level Information

Appendix C: Form C-141 Initial

I. Location

From the intersection of US 285 and Rocking R Red Road, take Rocking R Red Road west for 6.5 miles, then turn south onto the lease road and follow for 0.3 mile, then turn west for 0.2 mile to the entrance of the location.

II. Background

On December 1, 2017, EOG Y Resources, Inc. submitted to the NMOCD District II office a Form C-141 for the release of 10 B/PW with 7 B/PW recovered. The affected area overlaps area impacted by the 2RP-4354 release (approximately 255 feet by 15 feet within the primary berm), except this release did not breach the primary berm and there was an additional finger that followed the berm from the south tank that measures approximately 110 feet by 2 feet before tying back into the previously impacted area. The release was caused by the failure of a transfer pump causing the overflow of a produced water tank. A vacuum truck was dispatched to recover the standing fluid and a backhoe crew was contracted to excavate visually impacted soils, approximately 1 foot of soil excavated and sent to a NMOCD approved disposal facility during these activities.

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. Based on information from the New Mexico Office of the State Engineer (NMOSE) database and United States Geological Survey National Water Information System (USGS) regarding this location (Section 20, T19S-R25E), depth to groundwater is approximately 300 feet. The Chevron/Texaco Trend Map (Trend Map) has the same location (Section 20, T19S-R25E) to be approximately 150 feet to groundwater. However, based on the elevation of the location (3,587 ft.) and the elevation of the wells listed on USGS and NMOSE (3,585 ft.), the more accurate calculation of depth to groundwater appears to be 300 feet rather than 150 feet depicted by the Trend Map. Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of surface water being Brantley Lake at 8.4 miles away.

IV. NMOCD Ranking Criteria

The ranking for this site is zero (0) based on the following:

Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

Based on the ranking criteria, the NMOCD established RRALs for this site are:

Benzene	10 ppm
BTEX	50 ppm
TPH	5,000 ppm
Chlorides	No established RRAL

V. Sampling Procedure

Vertical delineation samples will consist of points S1, S2, and S4 from the 2RP-4354 approved characterization plan, plus an additional 3 points (S7, S8, and S9) which will be collected in the newly impacted area. Figure 2 displays the vertical sampling points, including 2RP-4354 points. Samples will be collected at 1', 2', 3', and 4' below grade surface (bgs). Due to the nature of the release (produced water), the first set of vertical delineation hole soil samples (1' and 2' bgs) will be analyzed for Benzene, BTEX, TPH extended, and chlorides. If these samples are below RRALs for Benzene, BTEX, and TPH extended, no further sampling for these constituents will occur, only chloride will be analyzed with any further soil sampling if the initial sample analyses warrant further delineation. All samples will be sent to a NMOCD approved laboratory for analysis. Based on those results, additional vertical samples may be collected at the same sample points until the RRAL for a site ranking 0 has been met.

Horizontal delineation samples had already been collected for 2RP-4354 prior to this release occurring. However, points H1, H2, H4, H10, H11, H12, H13, and H14 will be resampled to ensure that the boundaries are again identified since the new release re-impacted these areas. New horizontal delineation points will include H15-H20 which will be collected at what is believed to be the outer edge of the 2RP-4509 release area. Samples will be collected at 1' bgs and analysis will be run for the identified constituents determined from vertical delineation sampling to have caused impaction to the soil at the site. If a sample point is determined to be impacted by the release, a new sample will be collected moving out further until an area without impaction is located. Once located, samples will be taken to collaborate the impaction path to the next sample point in the sequence.

The baseline for all sampling analytical data, will be background samples that have already been collected as part of the original 2RP-4354 Characterization Plan.

Figure 1

Site Map

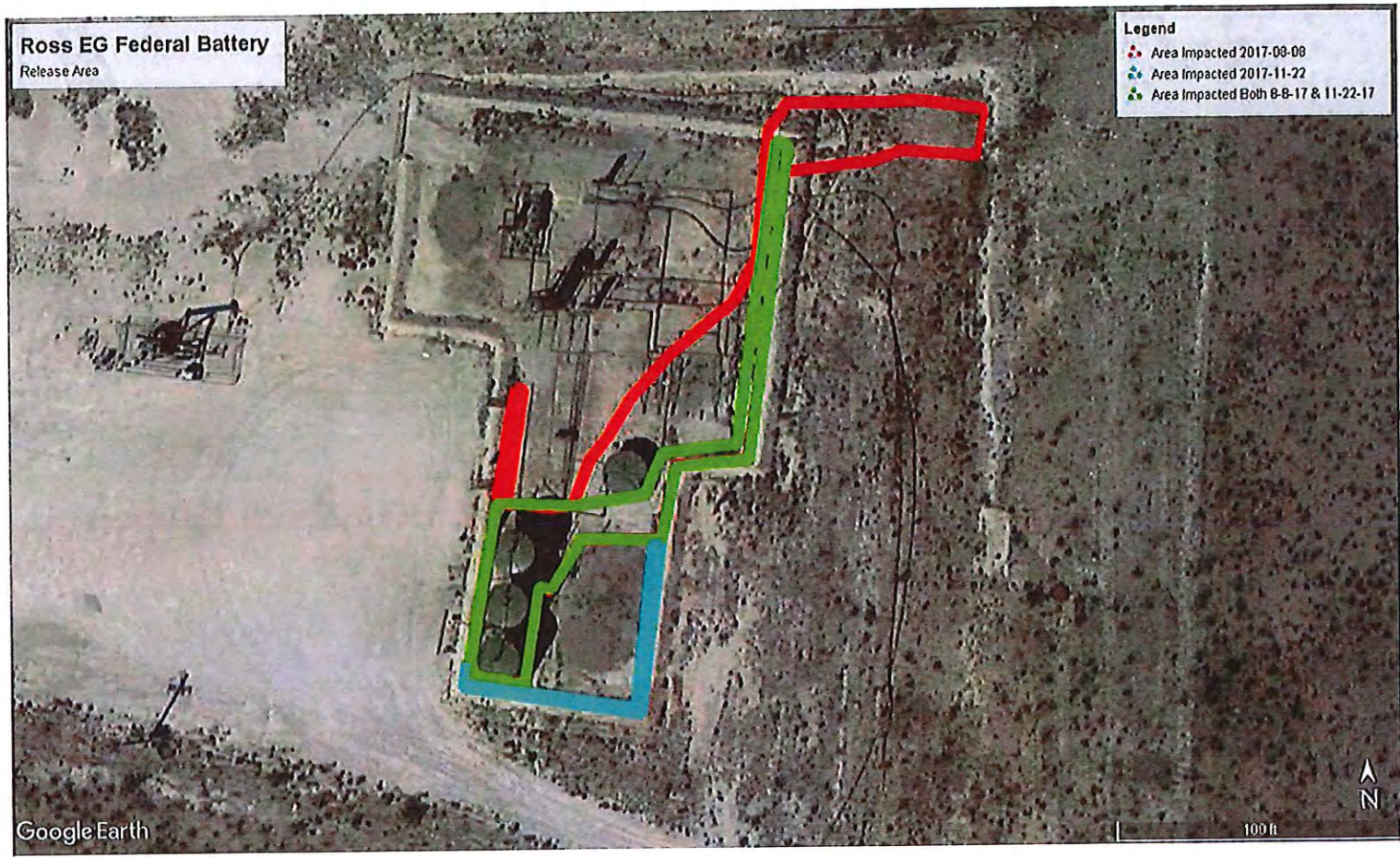


Figure 2

Vertical Sample Points



Figure 3

Horizontal Sample Points

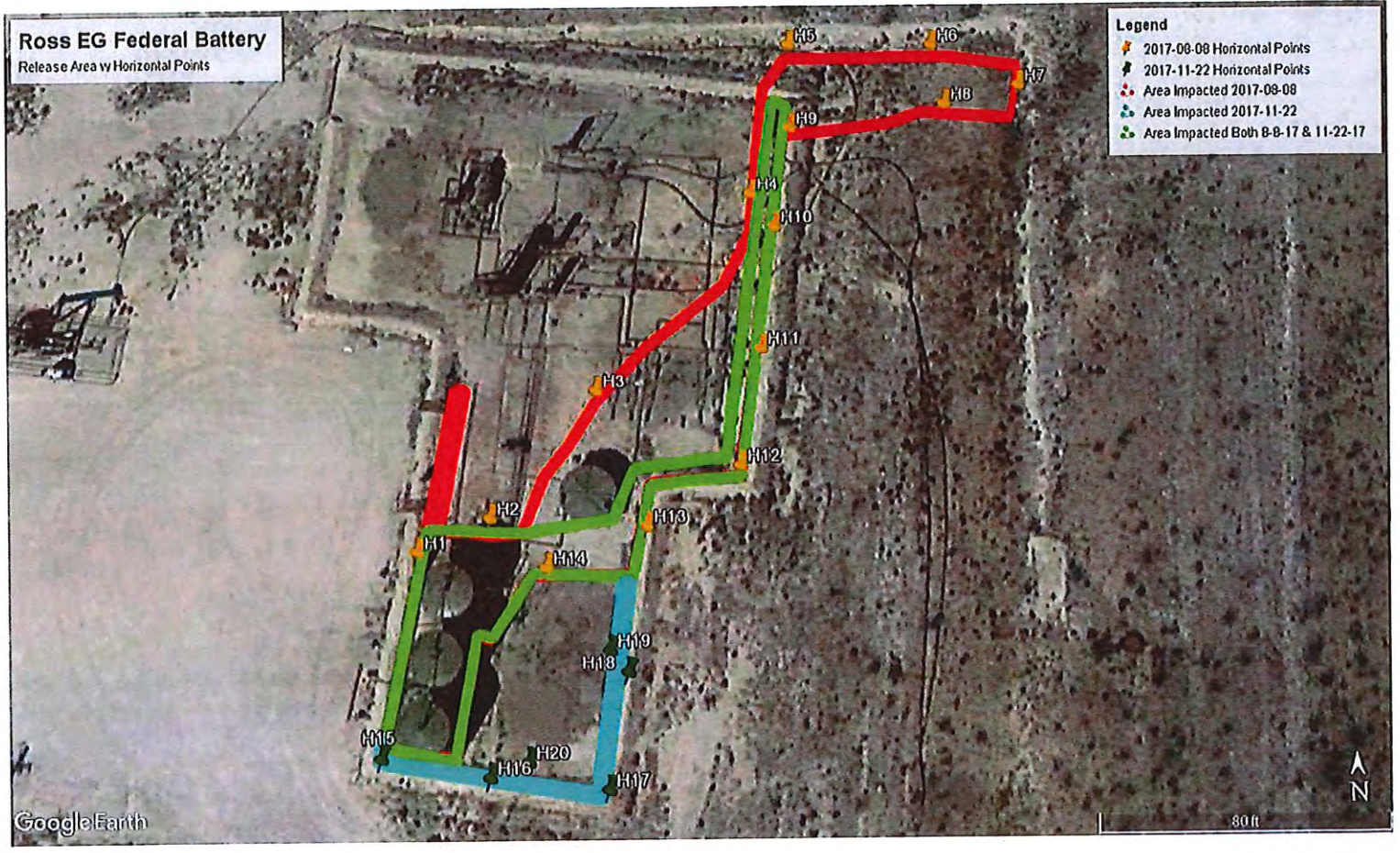
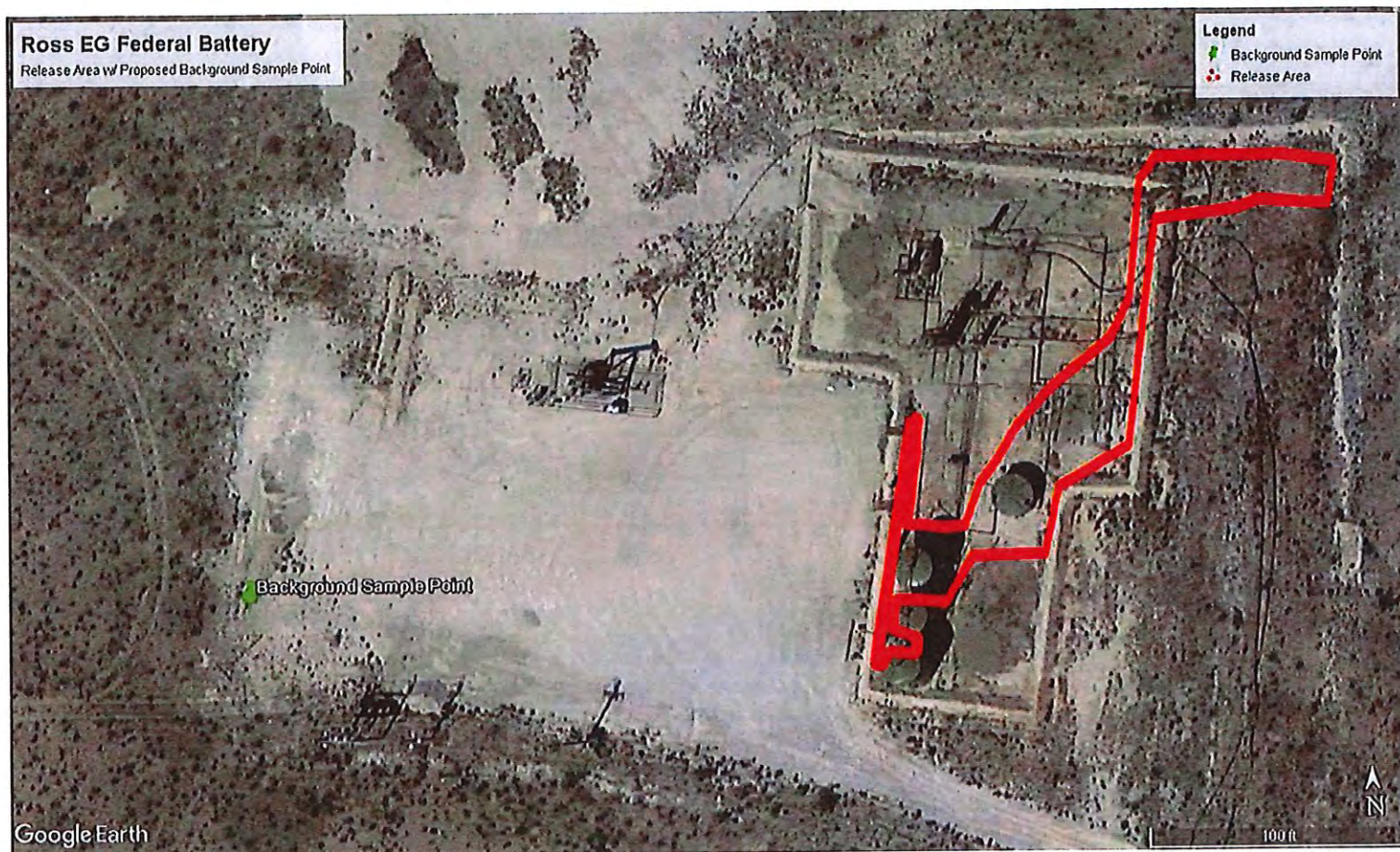


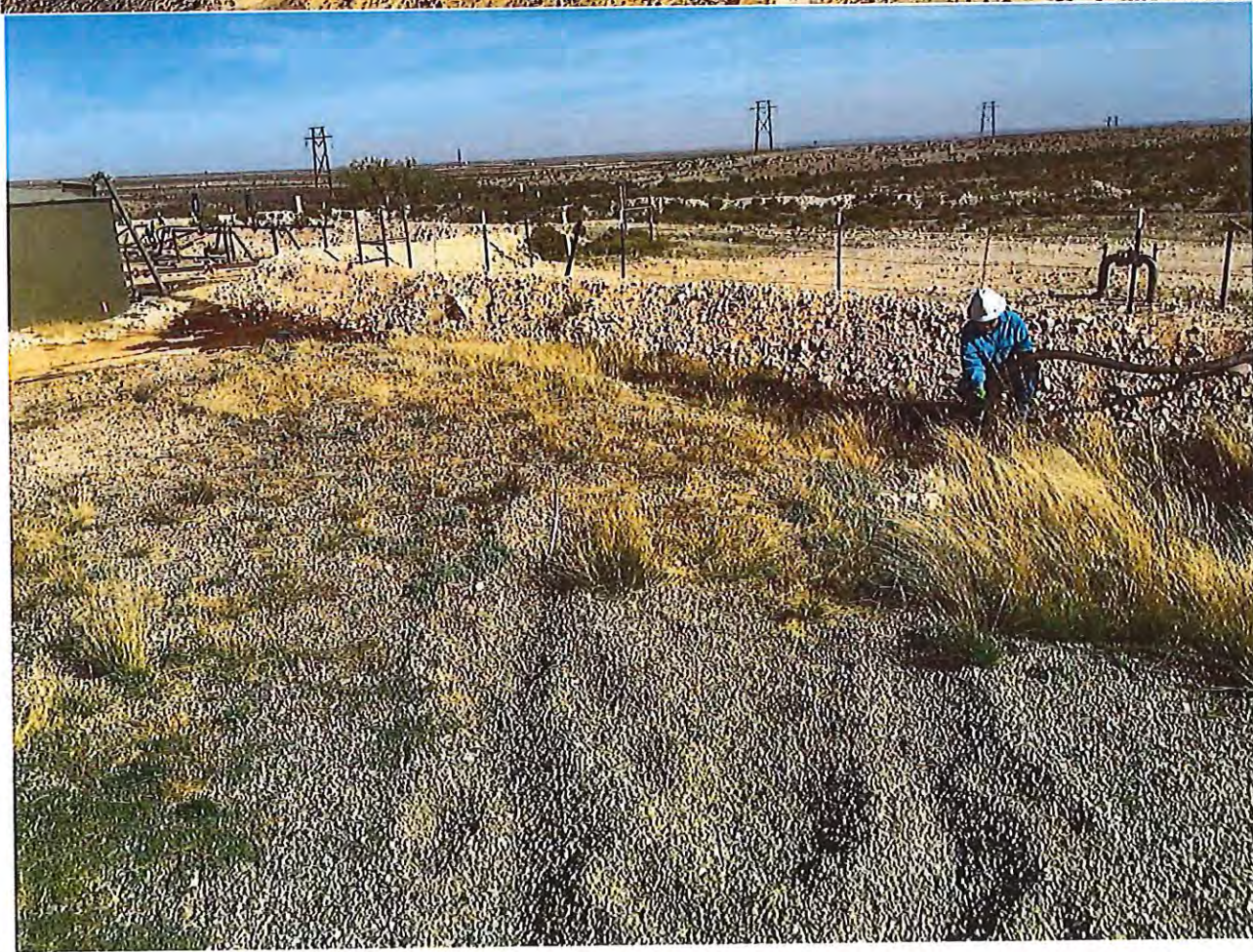
Figure 4

Background Sample Point



Photos





Appendix A

NMOSE Well Log

8/28/2017 nmwrrs.ose.state.nm.us/ReportProxy?queryData=%7B"report"%3A"drillerLog"%2C%0A"BasinDiv"%3A"true"%2C%0A"Basin"%3A""%2C%0A"...



New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW#### in the
POD suffix indicates the
POD has been replaced &
no longer serves a water
right)

(R-POD has
been replaced,
O-orphaned,
C-the file is
closed)

(quarters are 1-NW 2-NE 3-SW 4-SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	Code	Subbasin	County	Source	6416 4	Sec	Tiss	Ring	X	Y	Distance	Start Date	Finish Date	Log File	Depth	Depth	License
				ED	Shallow	3	2	19	19S	25E					Well	Water	Driller
BA 0476									544825	3612390*	839	12/05/1962	12/20/1962	11/08/1962	390	310	62

Record Count: 1

UTM/NAD83 Radius Search (in meters):

Easting (X): 545582.49

Northing (Y): 3612795.16

Radius: 900

*UTM location was derived from PLSS - see Help

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

8/28/17 2:07 PM

WELLS WITH WELL LOG INFORMATION

Appendix B

USGS Groundwater Level Information



National Water Information System: Web Interface
USGS Water Resources

USGS Home
Contact USGS
Search USGS

Data Element: Groundwater v Geographic Area: New Mexico GO

Click for News Bulletins

Groundwater levels for New Mexico

Click for state-specific text

Site Description Information -- 2 sites match criteria

County = Eddy
lat_long_bounding_box =

Position	Latitude	Longitude
Corner 1	32.653561	-104.544639
Corner 2	32.645194	-104.494185

Coordinates are entered as Decimal Degrees, DMS values are converted to Decimal degrees using NAD83 as the datum. Make your bounding box bigger if you are using NAD27 Datum for your DMS values

Minimum number of 1
levels =

Agency	Site Number	Site Name	Dec. Lat.	Dec. Lon.	Coord.	Dec. lat/long datum	State	County	Country	Land net	Well depth	Hole depth	Source of depth data	Field water-level measurements count
USGS	323854104311601	195.25E.19.232334	32.64844500	-104.52163240	U	NAD83	35	015	US	RESWNE5019T195, R35E,	317.00		A	1
USGS	323858104311101	195.25E.19.23431	32.64955676	-104.52024350	T	NAD83	35	015	US	RESWNE519 T195, R35E	288			2

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#) [Plug-ins](#) [FOIA](#) [Privacy](#) [Robots and Notices](#)

U.S. Department of the Interior | U.S. Geological Survey

Time: Groundwater levels -- 2 sites found

URL: <https://nwis.waterdata.usgs.gov/nim/nwis/gw/levels?>

Page Contact Information: [New Mexico Water Data Matchbox](#)

Page Last Modified: 2017-08-28 16:55:05 EDT

0.39 0.77 readw01

USA.gov

Appendix C

Form C-141 Initial

NM OIL CONSERVATION
 ARTESIA DISTRICT

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

DEC 01 2017

 State of New Mexico
 Energy Minerals and Natural Resources

NM OIL CONSERVATION
 ARTESIA DISTRICT

DEC 01 2017

 Form C-141
 Revised April 3, 2017

RECEIVED

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

RECEIVED

 Submit 1 Copy to appropriate District Office in
 accordance with 19.15.29 NMAC.

Release Notification and Corrective Action
OPERATOR

NAB1734036870

☒ Initial Report ☐ Final Report

Name of Company EOG Y Resources, Inc.	25525	Contact Chase Settle
Address 104 S. 4 th Street Artesia NM 88210		Telephone No. 575-748-1471
Facility Name Ross EG Federal Battery	(API for Ross EG Federal #3)	Facility Type Battery
Surface Owner Private	Mineral Owner Federal	API No. 30-015-25903

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	20	19S	25E	660	North	660	West	Eddy

Latitude 32.6519089 Longitude -104.5134125 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 10 B/PW	Volume Recovered 7 B/PW
Source of Release Produced Water Tank	Date and Hour of Occurrence 11/22/2017; AM	Date and Hour of Discovery 11/22/2017; 11:43 AM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken. * There was a failure of a transfer pump causing the overflow of a produced water tank, leading to the release. A vacuum truck was called to recover standing fluid and a backhoe was dispatched to excavate impacted soils.

Describe Area Affected and Cleanup Action Taken. *

The impacted area was identical to the area impacted by the 2RP-4354 release (255 feet by 15 feet within the primary battery berm), except this release did not breach the primary berm and there was an additional finger that followed the berm from the south tank that measured approximately 110 by 2 feet before tying back into the previously impacted and re-impacted release area. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. Depth to Ground Water: >100' (300', Section 20, T19S, R25E, per NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC 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.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Chase Settle	Approved by Environmental Specialist: <i>Accepted for record only</i>	
Title: Rep Safety & Environmental II	Approval Date: 12/4/17	Expiration Date: N/A
E-mail Address: chase.settle@egresources.com	Conditions of Approval: see attached	Attached: 255-4509
Date: December 1, 2017	Phone: 575-748-4171	

* Attach Additional Sheets If Necessary

Appendix D

NMOCD & BLM Approval Emails

Chase Settle

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Monday, October 2, 2017 9:12 AM
To: Chase Settle; Weaver, Crystal, EMNRD
Cc: Katie Parker; Bob Asher; Yvette Moore; Darlene Chavarria
Subject: RE: Characterization Plan- 2RP-4354 Ross EG Federal Battery

****External email. Use caution.****

RE: EOG Resources * Ross EG Fed 3 Tank Battery * **2RP-4354** * DOR: 8/8/17 * Private Surface Owner

Chase,

Your proposal for characterization of the above referenced release is approved. Please advise once delineation activities have been scheduled.

Thank you,

Mike Bratcher
 NMOCD District 2
 811 South First Street
 Artesia, NM 88210
 575-748-1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Chase Settle [mailto:Chase_Settle@eogresources.com]
Sent: Friday, September 29, 2017 11:10 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>
Cc: Katie Parker <Katie_Parker@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>; Darlene Chavarria <Darlene_Chavarria@eogresources.com>
Subject: Characterization Plan- 2RP-4354 Ross EG Federal Battery

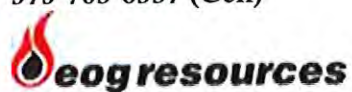
Please find attached the Characterization Plan for the below listed location.

Ross EG Federal Battery
 660' FNL & 660' FWL
 Section 20, T19S-R25E
 Eddy County, New Mexico
 2RP-4354

Thank you,

Chase Settle, M.S.
 Rep Safety & Environmental II

EOG Resources
105 S. 4th Street
Artesia, NM 88210
575-748-4171 (Office)
575-703-6537 (Cell)



Chase Settle

From: Tucker, Shelly <stucker@blm.gov>
Sent: Friday, March 16, 2018 2:49 PM
To: Weaver, Crystal, EMNRD
Cc: Chase Settle; Bratcher, Mike, EMNRD; Bob Asher; Yvette Moore
Subject: Re: Characterization Plan 2RP-4509

** External email. Use caution. **
 BLM concurs with NMOCD

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
 O&G Spill/Release Coordinator

Bureau of Land Management
 620 E. Greene St
 Carlsbad, NM 88220

575.234.5905 - Direct
 575.361.0084 - Cellular
 575.234.6235 - Emergency Spill Number

stucker@blm.gov

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

Confidentiality Warning: This message along with any attachments are intended only for use of the individual or entity to which it is addressed and may contain information that is privileged or confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

On Wed, Mar 14, 2018 at 4:00 PM, Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us> wrote:

Chase,

I think we can stick with this background sample but typically OCD does want to see a background that is not on pad.

Thank you for working with me on this one.

Sincerely,

Crystal Weaver

Environmental Specialist

OCD – Artesia District II

811 S. 1st Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963

Fax: 575-748-9720

From: Chase Settle [mailto:Chase.Settle@eogresources.com]

Sent: Wednesday, March 14, 2018 3:40 PM

To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Bob Asher <Bob.Asher@eogresources.com>; Yvette Moore <Yvette.Moore@eogresources.com>

Subject: RE: Characterization Plan 2RP-4509

Sure, they are attached.

Chase Settle, M.S.

Rep Safety & Environmental II

EOG Resources

105 S. 4th Street

Artesia, NM 88210

575-748-4171 (Office)

575-703-6537 (Cell)



From: Weaver, Crystal, EMNRD [<mailto:Crystal.Weaver@state.nm.us>]

Sent: Wednesday, March 14, 2018 3:31 PM

To: Chase Settle <Chase.Settle@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Bob Asher <Bob.Asher@eogresources.com>; Yvette Moore <Yvette.Moore@eogresources.com>

Subject: RE: Characterization Plan 2RP-4509

** External email. Use caution.**

This sender failed our fraud detection checks and may not be who they appear to be. Learn about [spoofing](#)

[Feedback](#)

Hello Chase,

Thanks for the response. Can we see what the lab results are from your background sample you pulled for the 2RP-4354 case?

Thanks again,

Crystal Weaver

Environmental Specialist

OCD – Artesia District II

811 S. 1st Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963

Fax: 575-748-9720

From: Chase Settle [mailto:Chase_Settle@eogresources.com]

Sent: Wednesday, March 14, 2018 2:30 PM

To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Bob Asher <Bob_Asher@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>

Subject: RE: Characterization Plan 2RP-4509

Mrs. Weaver,

Thank you for getting this Characterization Plan processed and back to me. I had a question about the Background Sample Point stipulation included in your approval of the Characterization Plan. That point was approved by Mike Bratcher on October 2, 2017 when I received approval for the first Characterization Plan for this location, the 2RP-4354 event. I wanted to know what has changed to make that point no longer a valid background point, especially since I've already gone through the expense of collecting and running laboratory analysis on those soil samples based on the previous NMOCD approval of that sample point for background soil characterization purposes?

Thank you,

Chase Settle, M.S.

Rep Safety & Environmental II

EOG Resources

105 S. 4th Street

Artesia, NM 88210

575-748-4171 (Office)

575-703-6537 (Cell)



From: Weaver, Crystal, EMNRD [<mailto:Crystal.Weaver@state.nm.us>]

Sent: Tuesday, March 13, 2018 2:27 PM

To: Chase Settle <Chase_Settle@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Bob Asher <Bob_Asher@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>

Subject: RE: Characterization Plan 2RP-4509

**** External email. Use caution.****

RE: EOG * Ross EG Federal Battery * 30-015-25903 * 2RP-4509

(also includes sample points mentioned from approved site characterization plan for previous release at same location - case number 2RP-4354)

Chase,

Your Characterization Plan for the location mentioned above which includes delineation plans that represent the previous release that has a case number of 2RP-4354 is approved with the following expectations:

- If it is EOG's intent to collect a background sample then taking said sample at the location that is marked on the site map, that EOG provided in this plan, is not accepted. Please make sure to take a background sample off pad in an area that appears to be in every way unimpacted by oil and gas activities. Please demark the new location that EOG selects on the site map that is provided during the work plan proposal phase.
- Chlorides will be delineated both vertically and horizontally to 600ppm chlorides in 1' intervals of lab tested samples.
- Your depth to water analysis consulted more than just one resource and OCD appreciates that. Although, two of the closest wells OCD found upon conducting their own depth to water analysis were USGS 323841104303201 that has a documented depth to water of 117.5ft bgs, and OSE well RA-6418 had a documented depth to water of 72ft bgs, however, when OCD factored in elevation etc. OCD saw that it is still feasible to go with a site ranking of 0 for the location of the release.

Please notify OCD when delineation activities are scheduled. Since federal minerals exist at this site like approval from the BLM may be required.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact Mike Bratcher and/or myself in the District II Office.

Crystal Weaver

Environmental Specialist

OCD – Artesia District II

811 S. 1st Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963

Fax: 575-748-9720

From: Chase Settle [mailto:Chase_Settle@eogresources.com]

Sent: Thursday, January 11, 2018 2:34 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Bob Asher <Bob_Asher@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>

Subject: Characterization Plan 2RP-4509

Please find attached the Characterization Plan for the below listed site.

Ross EG Federal Battery

660' FNL & 660' FWL

Section 20, T19S-R25E

Eddy County, New Mexico

2RP-4509

Thank you,

Chase Settle, M.S.

Rep Safety & Environmental II

EOG Resources

105 S. 4th Street

Artesia, NM 88210

575-748-4171 (Office)

575-703-6537 (Cell)



From: Weaver, Crystal, EMNRD [<mailto:Crystal.Weaver@state.nm.us>]

Sent: Wednesday, January 10, 2018 3:08 PM

To: Yvette Moore <Yvette_Moore@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; stucker@blm.gov

Cc: Chase Settle <Chase_Settle@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>

Subject: RE: Ross EG Federal Battery C-141

**** External email. Use caution.****

RE: EOG * Ross EG Fed. #3 * 30-015-25903 * 32RP-4509

Yvette,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval (COA). The OCD tracking number for this event is 2RP-4509, please refer to this tracking number on any and all submissions sent in to the OCD. Please remit a site characterization plan (see COA document included in attachment) or advise OCD of plan of action by no later than 1/17/18.

Thank you,

Crystal Weaver

Environmental Specialist

OCD – Artesia District II

811 S. 1st Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963

Fax: 575-748-9720

From: Yvette Moore [mailto:Yvette_Moore@eogresources.com]

Sent: Friday, December 1, 2017 12:02 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; stucker@blm.gov

Cc: Chase Settle <Chase_Settle@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>

Subject: Ross EG Federal Battery C-141

Please find the attached C-141 Initial for the location listed below:

Ross EG Federal Battery

30-015-25903

660' FNL 7 660' FWL

Section 20, T19S-R25E

Eddy County, New Mexico

Thanks,



Yvette Moore

Rep Safety & Environmental II

Safety & Environmental Department

Artesia Division

(575)748-4223

yvette_moore@eogresources.com

Chase Settle

From: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>
Sent: Wednesday, March 14, 2018 4:01 PM
To: Chase Settle; Bratcher, Mike, EMNRD; Shelly Tucker
Cc: Bob Asher; Yvette Moore
Subject: RE: Characterization Plan 2RP-4509

**** External email. Use caution. ****

This sender failed our fraud detection checks and may not be who they appear to be. Learn about [spoofing](#) [Feedback](#)
 Chase,

I think we can stick with this background sample but typically OCD does want to see a background that is not on pad.

Thank you for working with me on this one.

Sincerely,

Crystal Weaver

Environmental Specialist
 OCD – Artesia District II
 811 S. 1st Street
 Artesia, NM 88210
 Office: 575-748-1283 ext. 101
 Cell: 575-840-5963
 Fax: 575-748-9720

From: Chase Settle [mailto:Chase_Settle@eogresources.com]
Sent: Wednesday, March 14, 2018 3:40 PM
To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <tucker@blm.gov>
Cc: Bob Asher <Bob_Asher@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>
Subject: RE: Characterization Plan 2RP-4509

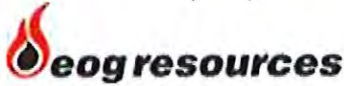
Sure, they are attached.

Chase Settle, M.S.

Rep Safety & Environmental II

EOG Resources
 105 S. 4th Street
 Artesia, NM 88210
 575-748-4171 (Office)

575-703-6537 (Cell)



From: Weaver, Crystal, EMNRD [<mailto:Crystal.Weaver@state.nm.us>]

Sent: Wednesday, March 14, 2018 3:31 PM

To: Chase Settle <Chase.Settle@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Bob Asher <Bob.Asher@eogresources.com>; Yvette Moore <Yvette.Moore@eogresources.com>

Subject: RE: Characterization Plan 2RP-4509

** External email. Use caution.**

This sender failed our fraud detection checks and may not be who they appear to be. Learn about [spoofing](#)

[Feedback](#)

Hello Chase,

Thanks for the response. Can we see what the lab results are from your background sample you pulled for the 2RP-4354 case?

Thanks again,

Crystal Weaver

Environmental Specialist

OCD – Artesia District II

811 S. 1st Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963

Fax: 575-748-9720

From: Chase Settle [<mailto:Chase.Settle@eogresources.com>]

Sent: Wednesday, March 14, 2018 2:30 PM

To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Bob Asher <Bob.Asher@eogresources.com>; Yvette Moore <Yvette.Moore@eogresources.com>

Subject: RE: Characterization Plan 2RP-4509

Mrs. Weaver,

Thank you for getting this Characterization Plan processed and back to me. I had a question about the Background Sample Point stipulation included in your approval of the Characterization Plan. That point was approved by Mike Bratcher on October 2, 2017 when I received approval for the first Characterization Plan for this location, the 2RP-4354 event. I wanted to know what has changed to make that point no longer a valid background point, especially since I've

already gone through the expense of collecting and running laboratory analysis on those soil samples based on the previous NMOCD approval of that sample point for background soil characterization purposes?

Thank you,

Chase Settle, M.S.

Rep Safety & Environmental II

EOG Resources

105 S. 4th Street

Artesia, NM 88210

575-748-4171 (Office)

575-703-6537 (Cell)



eogresources

From: Weaver, Crystal, EMNRD [<mailto:Crystal.Weaver@state.nm.us>]

Sent: Tuesday, March 13, 2018 2:27 PM

To: Chase Settle <Chase.Settle@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Bob Asher <Bob.Asher@eogresources.com>; Yvette Moore <Yvette.Moore@eogresources.com>

Subject: RE: Characterization Plan 2RP-4509

** External email. Use caution.**

RE: EOG * Ross EG Federal Battery * 30-015-25903 * 2RP-4509

(also includes sample points mentioned from approved site characterization plan for previous release at same location - case number 2RP-4354)

Chase,

Your Characterization Plan for the location mentioned above which includes delineation plans that represent the previous release that has a case number of 2RP-4354 is approved with the following expectations:

- If it is EOG's intent to collect a background sample then taking said sample at the location that is marked on the site map, that EOG provided in this plan, is not accepted. Please make sure to take a background sample off pad in an area that appears to be in every way unimpacted by oil and gas activities. Please demark the new location that EOG selects on the site map that is provided during the work plan proposal phase.
- Chlorides will be delineated both vertically and horizontally to 600ppm chlorides in 1' intervals of lab tested samples.
- Your depth to water analysis consulted more than just one resource and OCD appreciates that. Although, two of the closest wells OCD found upon conducting their own depth to water analysis were USGS 323841104303201 that has a documented depth to water of 117.5ft bgs, and OSE well RA-6418 had a documented depth to water of 72ft bgs, however, when OCD factored in elevation etc. OCD saw that it is still feasible to go with a site ranking of 0 for the location of the release.

Please notify OCD when delineation activities are scheduled. Since federal minerals exist at this site like approval from the BLM may be required.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact Mike Bratcher and/or myself in the District II Office.

Crystal Weaver

Environmental Specialist

OCD – Artesia District II

811 S. 1st Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963

Fax: 575-748-9720

From: Chase Settle [mailto:Chase_Settle@eogresources.com]

Sent: Thursday, January 11, 2018 2:34 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Bob Asher <Bob_Asher@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>

Subject: Characterization Plan 2RP-4509

Please find attached the Characterization Plan for the below listed site.

Ross EG Federal Battery

660' FNL & 660' FWL

Section 20, T19S-R25E

Eddy County, New Mexico

2RP-4509

Thank you,

Chase Settle, M.S.

Rep Safety & Environmental II

EOG Resources

105 S. 4th Street
 Artesia, NM 88210
 575-748-4171 (Office)
 575-703-6537 (Cell)



From: Weaver, Crystal, EMNRD [<mailto:Crystal.Weaver@state.nm.us>]
Sent: Wednesday, January 10, 2018 3:08 PM
To: Yvette Moore <Yvette_Moore@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; stucker@blm.gov
Cc: Chase Settle <Chase_Settle@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>
Subject: RE: Ross EG Federal Battery C-141

** External email. Use caution.**

RE: EOG * Ross EG Fed. #3 * 30-015-25903 * 32RP-4509

Yvette,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval (COA). The OCD tracking number for this event is 2RP-4509, please refer to this tracking number on any and all submissions sent in to the OCD. Please remit a site characterization plan (see COA document included in attachment) or advise OCD of plan of action by no later than 1/17/18.

Thank you,

Crystal Weaver

Environmental Specialist
 OCD – Artesia District II
 811 S. 1st Street
 Artesia, NM 88210
 Office: 575-748-1283 ext. 101
 Cell: 575-840-5963
 Fax: 575-748-9720

From: Yvette Moore [mailto:Yvette_Moore@eogresources.com]
Sent: Friday, December 1, 2017 12:02 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; stucker@blm.gov
Cc: Chase Settle <Chase_Settle@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>
Subject: Ross EG Federal Battery C-141

Please find the attached C-141 Initial for the location listed below:

Ross EG Federal Battery
30-015-25903
660' FNL 7 660' FWL
Section 20, T19S-R25E
Eddy County, New Mexico

Thanks,



Yvette Moore

Rep Safety & Environmental II
Safety & Environmental Department
Artesia Division

(575)748-4223

yvette_moore@eogresources.com

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 94879

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 94879
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	No change. PDF file would not allow Acrobat. Bu Bradford Billings on 07/11/2022 Approved closure for both allied incidents nAB1723536168 and nAB1734036870	7/11/2022