

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2216142798
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	EOG Resources, Inc	OGRID	7377
Contact Name	Amber Griffin	Contact Telephone	575-748-1471
Contact email	amber_griffin@eogresources.com	Incident #	nAPP2216142798
Contact mailing address	104 S. 4th Street, Artesia, NM 88210		

Location of Release Source

Latitude 36.0294685 Longitude -107.3438797
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Bois D Arc Divide 22 #002	Site Type	Wellhead
Date Release Discovered	6/9/2022	API# (if applicable)	30-043-20982

Unit Letter	Section	Township	Range	County
P	22	21N	05W	Sandoval

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

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

Cause of Release: Historical impacts were discovered during annual bradenhead testing. The environmental consultant contracted to investigate the area determined on 6/9/2022, based on the impacted area footprint, that the release more than likely breached the reportable volume threshold.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Amber Griffin</u> Title: <u>Rep Safety & Environmental Sr</u> Signature: <u><i>Amber Griffin</i></u> Date: <u>6/10/2022</u> email: <u>amber_griffin@eogresources.com</u> Telephone: <u>575-748-1471</u>
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>06/13/2022</u>

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 116025

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 116025
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	6/13/2022

Incident ID	nAPP2216142798
District RP	
Facility ID	
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>102.45</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 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.

Incident ID	nAPP2216142798
District RP	
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
 Signature: Chase Settle Date: 09/07/2022
 email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Jocelyn Harimon Date: 09/07/2022

Incident ID	nAPP2216142798
District RP	
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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: 09/07/2022
 email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Jocelyn Harimon Date: 09/07/2022

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: Nelson Velez Date: 11/17/2022
 Printed Name: Nelson Velez Title: Environmental Specialist – Adv

6121 Indian School Rd NE,
Suite 200
Albuquerque, NM 87110
www.GHD.com

Our Ref.: 12565407-NMOCD-1

September 7, 2022

New Mexico Oil Conservation Division
District 3
1000 Rio Brazos Road
Aztec, New Mexico 87410

Site Closure Report
EOG Resources, Inc.
Incident ID: nAPP2216142798
P-22-21N-05W, Sandoval County, New Mexico

Dear Sir or Madam:

1. Introduction

GHD Services Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 3 Office. This Report provides documentation of delineation, sampling, remedial activities, and analyses conducted in the affected area at the EOG Bois D Arc Divide 22 #002 Site (Site). The Site is located in Unit Letter P, Section 22 of Township 21 North and Range 05 West in Sandoval County, New Mexico. The GPS coordinates for the release Site are 36.0294685° N latitude and -107.3438797° W longitude. The release occurred on federally owned land. Figure 1 depicts the Site location and other Site details are depicted on Figure 2.

2. Background Information

A Form C-141, Release Notification, for this release was submitted to the NMOCD on June 9, 2022. The Form C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during annual bradenhead testing associated with this location. Soils adjacent to the wellhead appeared to be discolored. On May 24, 2022, GHD was on-Site to investigate if the stained soils constituted a reportable release. Based on the analytical results of the May 2022 investigative sampling received on June 9, 2022, EOG made the decision to file a Form C-141 for the release location.

The release falls under the jurisdiction of the NMOCD District 3 Office in Aztec, New Mexico. The NMOCD assigned the release with Incident Number nAPP2216142798. The Release Notification, Site Assessment/Characterization, and Closure portions of Form C-141 are attached to the front of this report.

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 Site is located within 300 feet of a significant watercourse/wetland and must be treated as if groundwater is less than 50 feet below ground surface (ft bgs). No other receptors (water wells, high karst potential areas, playas, lakebeds, or ordinance boundaries) were located within each specific boundary or distance from the Site. The Site characterization documentation (Points of Diversion, Significant Watercourse Map, Federal Emergency Management Agency [FEMA], and Wetlands maps) are provided in Attachment A. The soil closure criteria are listed below.

General Site Characterization and Groundwater

Site Characterization	Average Groundwater Depth (feet)
300 ft from a significant watercourse/wetland.	treated as <50 ft based on site characterization

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

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0 to 4 ft).	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release.	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined mg/kg = milligrams per kilogram					

4. Initial Soil Delineation Assessment Summary and Findings

On October 21, 2021, six composite soil samples, Comp 1 through Comp 6, were collected at a depth of 1 ft below ground surface (bgs). The soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by the United States Environmental Protection Agency (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. Two of the six composite samples, Comp 1 (1') bottom and Comp 2 (1') bottom, exceeded Site specific Closure Criteria.

To further investigate the suspected release in the areas of the two bottom composite samples GHD and EOG contracted Kelly Oilfield Services to advance two test pits, TP1 and TP2, on May 24, 2022. Soil samples were collected at depths of 2 ft and 4 ft bgs from the test pits and analyzed for BTEX, total TPH, and chloride. Analytical results of the May 24, 2022, samples indicated BTEX, TPH, and chloride concentrations were below Table I Closure Criteria.

Figure 3: Sampling Detail with Analytical Results Map, depicts the locations of the initial delineation samples and analytical concentrations. Analytical results are summarized in Table 1 and included in the Laboratory Analytical Reports provided in Attachment B.

5. Excavation, Waste Management and Confirmation Sampling

Due to the initial soil sampling activities exhibiting constituent concentrations above NMAC 19.15.29.13 Closure Criteria, GHD and Kelly Oilfield Services mobilized to the site on July 18, 2022, to excavate the affected soils. The excavation measured approximately 20 ft by 15 ft by 2 feet, equaling approximately 22 cubic yards. As shown on Figure 3, four sidewall (SW, SN, SE, and SS) and two excavation floor (F1 and F2) composite samples were collected. The confirmation samples were taken to HEAL and analyzed for BTEX, TPH, and chloride. Analytical results showed that one floor confirmation sample, F2, contained TPH concentrations above Table I Closure Criteria. Analytical results for the confirmation samples are summarized in Table 1 and included in the laboratory analytical report is provided in Attachment B.

Due to confirmation sampling activities exhibiting TPH concentrations above Table I Closure Criteria, GHD and Kelly Oilfield Services returned to the Site on August 15, 2022, to further excavate the affected area around sample location F2. The final excavation measured approximately 20 ft by 15 ft by 4 ft, equaling approximately 50 cubic yards. The floor of the excavation was resampled, Bois #2 Floor N and Bois #2 Floor S, at a depth of 4 ft bgs. The floor confirmation samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX, TPH, and chloride. Analytical results indicated BTEX, TPH, and chloride concentrations were below Table I Closure Criteria in the two 4 ft floor samples. Analytical results for the floor confirmation samples are provided in Table 1 and in the associated laboratory analytical report is provided in Attachment B.

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 (#NM-01-0011) Envirotech, Inc. Soil Remediation Facility located at #43 Road 7175, south of Bloomfield, New Mexico. Approximately 50 yards of impacted soil were disposed at the Envirotech facility.

6. nAPP2216142798 Closure Request

The excavation is scheduled to be backfilled with non-impacted material. Site characterization, soil delineation, and remediation activities for this incident have been performed in accordance with applicable NMOCD guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of EOG, respectfully requests closure and no further regulatory actions for nAPP2216142798.

If you have any questions or comments concerning this Site Closure Report, please do not hesitate to contact our Albuquerque office at (505) 200-3210.

Regards,

GHD



Adrianna Copeland
Project Scientist
(713) 731-6634
adrianna.copeland@GHD.com



Christine Mathews
Project Manager
(505) 269-0088
christine.mathews@ghd.com

NR/jlf/1

- Encl.: Table 1 - Summary of Soil Analytical Data
Figure 1 - Site Location Map
Figure 2 - Site Details Map
Figure 3 - Sampling Details with Analytical Results Map
Attachment A - Site Characterization Documentation
Attachment B - Laboratory Analytical Reports and Chain-of-Custody Documentation
Attachment C - Photographic Log

Tables

Table 1
Summary of Soil Analytical Data
Bois D Arc Divide 22 #002
EOG Resources
Sandoval County, New Mexico

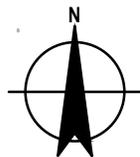
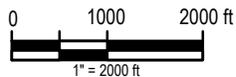
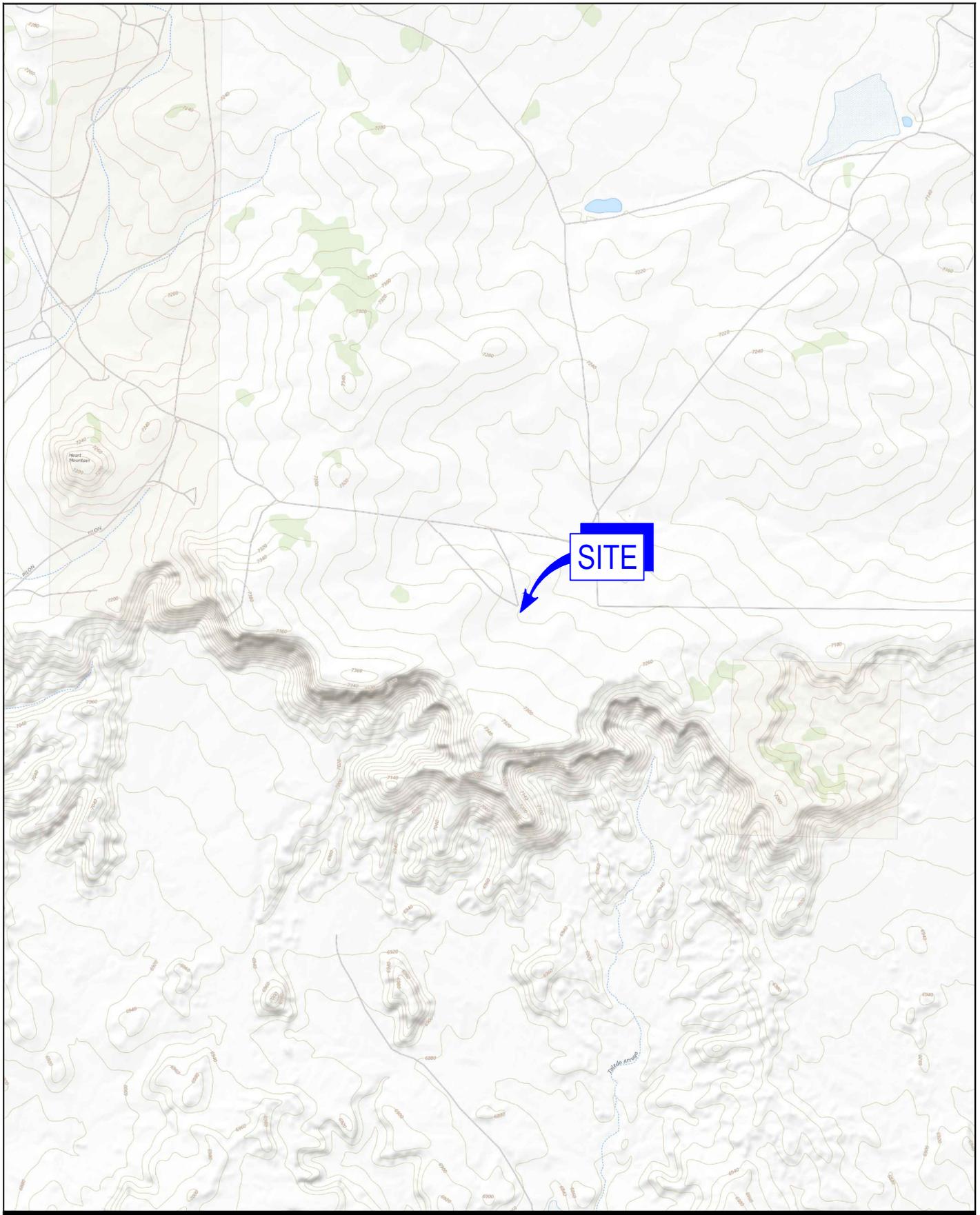
SAMPLE ID	SAMPLE DATE	DEPTH (FEET BGS)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	BTEX (mg/Kg)	TPH				CHLORIDE (mg/Kg)
								GRO (C6-C10) (mg/Kg)	DRO (C10-C28) (mg/Kg)	MRO (C28-C35) (mg/Kg)	TOTAL GRO/DRO/MRO (mg/Kg)	
								Table 1 Closure Criteria for Soils < 50 feet Depth to Groundwater 19.15.29 NMAC				
10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg			
INITIAL ASSESSMENT SAMPLES												
Comp 1 (1') bottom	10/21/2021	1	< 0.024	< 0.049	< 0.049	< 0.098	< 0.10	< 4.9	250	430	680	< 60
Comp 2 (1') bottom	10/21/2021	1	< 0.12	< 0.25	< 0.25	< 0.50	< 0.50	< 25	360	300	660	< 59
Comp 3 (1') wall	10/21/2021	1	< 0.023	< 0.047	< 0.047	< 0.094	< 0.09	< 4.7	< 9.7	< 48	< 48	< 60
Comp 4 (1') wall	10/21/2021	1	< 0.023	< 0.047	< 0.047	< 0.093	< 0.09	< 4.7	< 9.8	< 49	< 49	< 60
Comp 5 (1') wall	10/21/2021	1	< 0.023	< 0.047	< 0.047	< 0.093	< 0.09	< 4.7	< 9.7	< 48	< 48	< 60
Comp 6 (1') wall	10/21/2021	1	< 0.025	< 0.049	< 0.049	< 0.098	< 0.10	< 4.9	< 9.8	< 49	< 49	< 60
TP-1 (2')	5/24/22	2	< 0.019	< 0.038	< 0.038	< 0.076	< 0.076	< 3.8	< 9.3	< 47	< 47	< 60
TP-1 (4')	5/24/22	4	< 0.022	< 0.043	< 0.043	< 0.087	< 0.087	< 4.3	< 9.9	< 49	< 49	90
TP-2 (2')	5/24/22	2	< 0.020	< 0.040	< 0.040	< 0.081	< 0.081	< 4.0	< 9.8	< 49	< 49	< 60
TP-2 (4')	5/24/22	4	< 0.021	< 0.042	< 0.042	< 0.084	< 0.084	< 4.2	< 9.5	< 48	< 48	96
CLOSURE CONFIRMATION SAMPLES												
Bois 2 - SN	7/20/22	0 - 2	< 0.025	< 0.049	< 0.049	< 0.099	< 0.099	< 4.9	< 14	< 45	< 45	< 61
Bois 2 - SE	7/20/22	0 - 2	< 0.025	< 0.050	< 0.050	< 0.099	< 0.099	< 5.0	< 13	< 42	< 42	< 60
Bois 2 - SS	7/20/22	0 - 2	< 0.025	< 0.050	< 0.050	< 0.099	< 0.099	< 5.0	< 15	< 50	< 50	< 60
Bois 2 - SW	7/20/22	0 - 2	< 0.025	< 0.050	< 0.050	< 0.10	< 0.10	< 5.0	< 15	< 49	< 49	< 61
Bois 2 - F1	7/20/22	2	< 0.024	< 0.049	< 0.049	< 0.097	< 0.097	< 4.9	< 15	< 49	< 49	< 60
Bois 2 - F2	7/20/22	2	< 0.025	< 0.049	< 0.049	< 0.099	< 0.099	< 4.9	1500	890	2390	79
Bois #2 Floor N	8/16/22	4	< 0.025	< 0.050	< 0.050	< 0.099	< 0.099	< 5.0	< 15	< 49	< 49	75
Bois #2 Floor S	8/16/22	4	< 0.024	< 0.048	< 0.048	< 0.096	< 0.096	< 4.8	41	< 48	41	100

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.
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMOC 19.15.29.12 Table 1 Closure Criteria for the site.
8. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

~~Bois 2 - F2~~ Sample Point Excavated

Figures



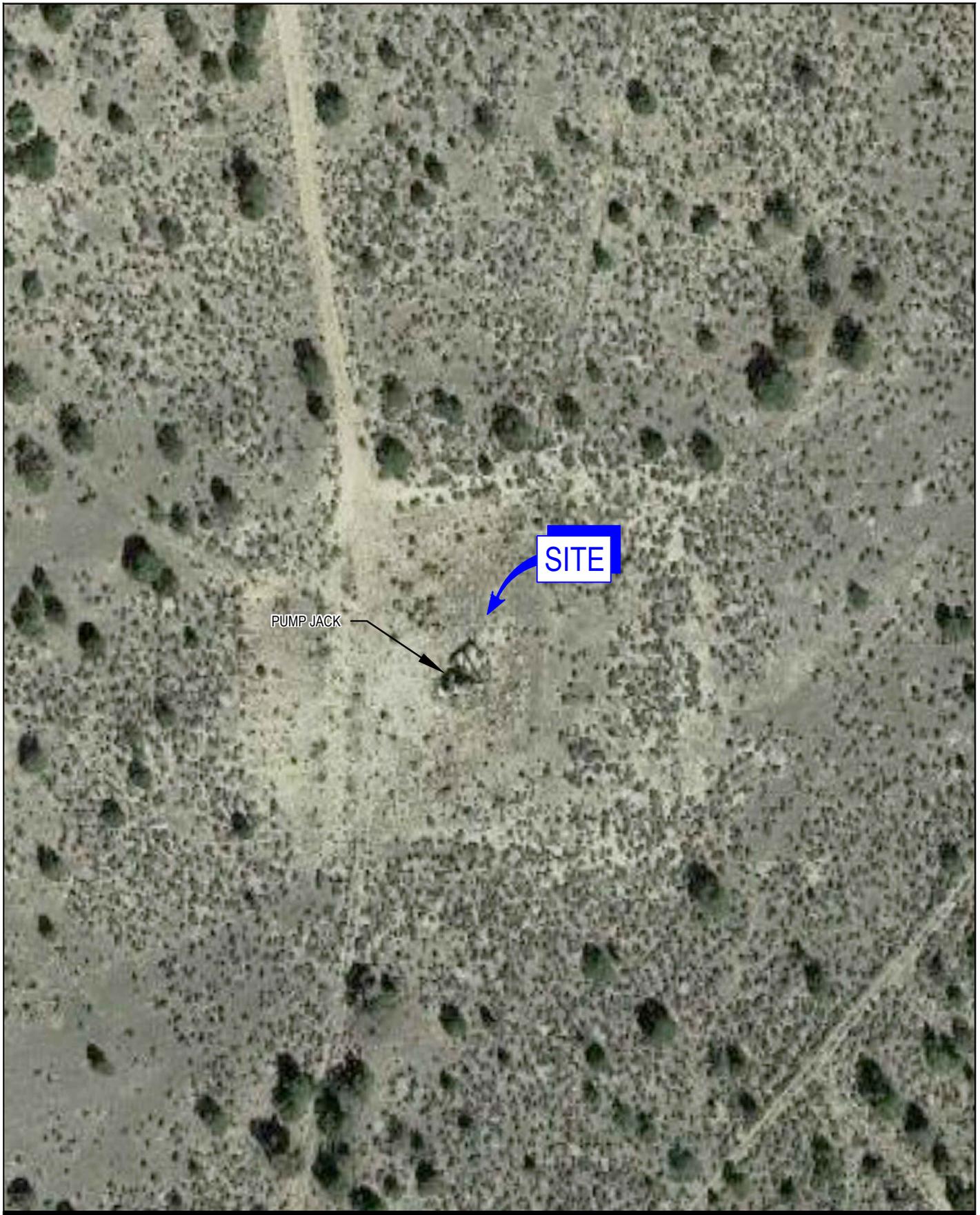
EOG RESOURCES, INC.
 SANDOVAL COUNTY, NEW MEXICO
 BOIS D ARC DIVIDE 22 002

Project No. 12565407
 Date June 2022

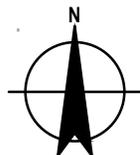
Coordinate System:
 NAD 1983 - STATE PLANE
 NEW MEXICO CENTRAL - FT

SITE LOCATION MAP

FIGURE 1



Coordinate System:
 NAD 1983 - STATE PLANE
 NEW MEXICO CENTRAL - FT

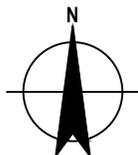
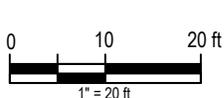
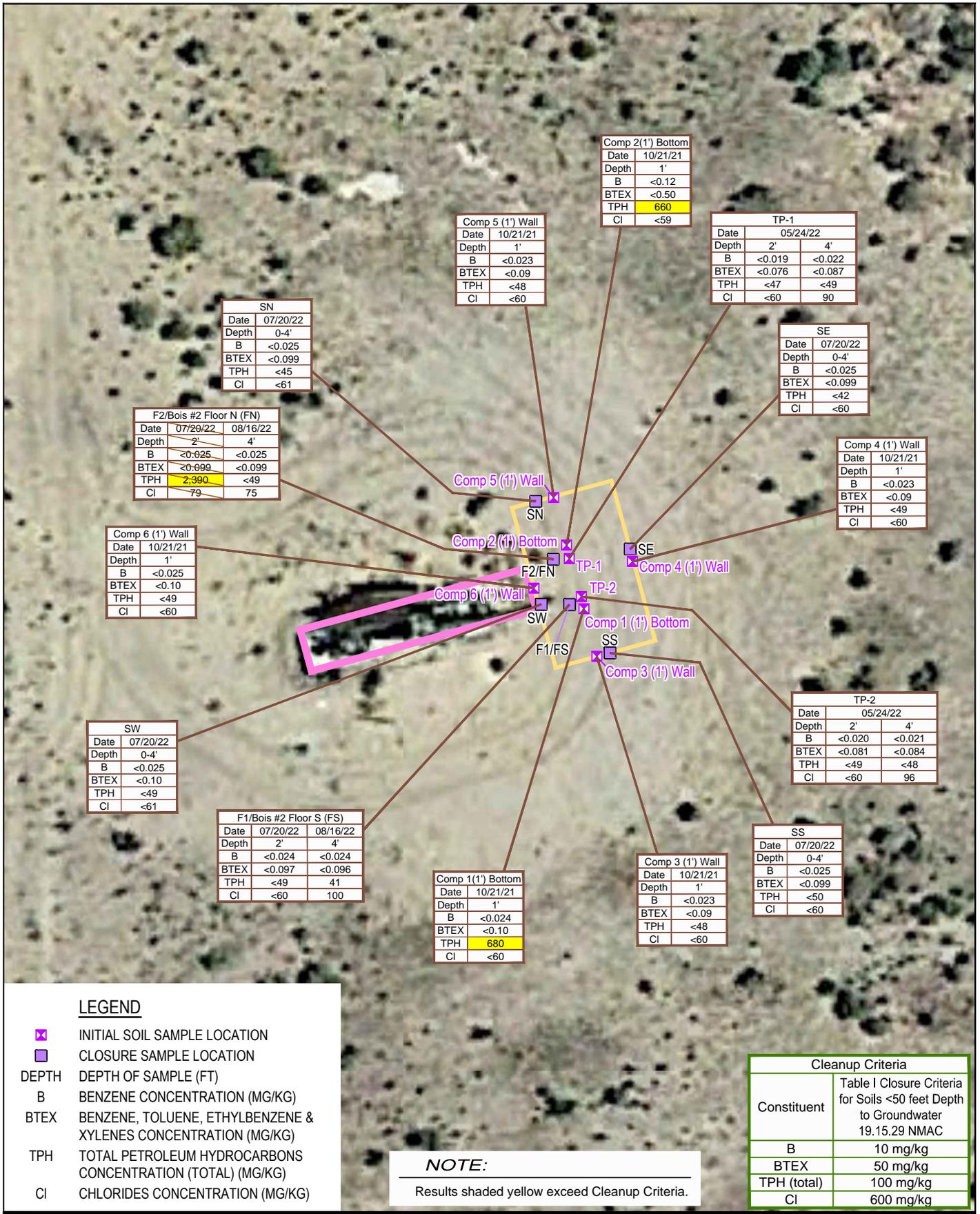


EOG RESOURCES, INC.
 SANDOVAL COUNTY, NEW MEXICO
 BOIS D ARC DIVIDE 22 002

Project No. 12565407
 Date June 2022

SITE DETAIL

FIGURE 2



Coordinate System:
NAD 1983 - STATE PLANE
NEW MEXICO CENTRAL - FT



EOG RESOURCES, INC.
SANDOVAL COUNTY, NEW MEXICO
BOIS D ARC DIVIDE 22 002

Project No. 12565407
Date September 2022

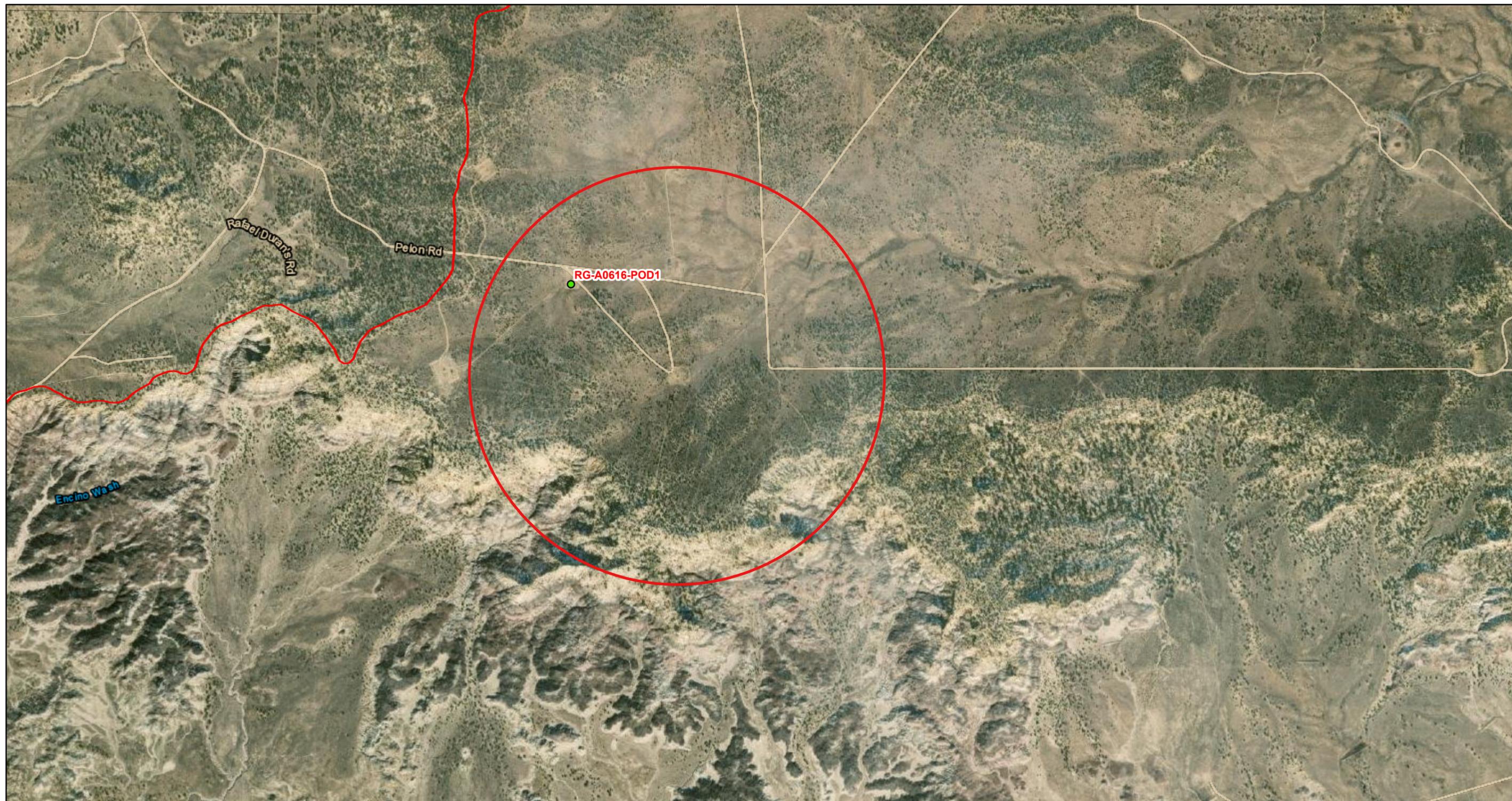
SAMPLING DETAIL WITH
ANALYTICAL RESULTS

FIGURE 3

Attachment A

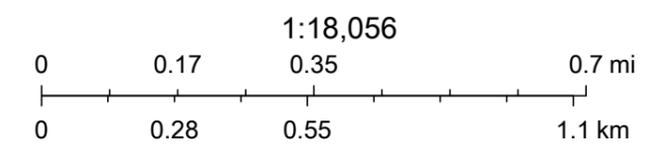
Site Characterization Documentation

OSE POD Locations Map



8/31/2022, 3:08:29 PM

- Override 1
 - OSE District Boundary
 - SiteBoundaries
 - Pending
 - Subsurface Estate
- GIS WATERS PODs New Mexico State Trust Lands



Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar



WELL PLUGGING PLAN OF OPERATIONS

NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: RG-A0616 POD1

Name of well owner: EOG Resources

Mailing address: 104 S 4th Street County: _____

City: Artesia State: New Mexico Zip code: 88210

Phone number: 505-632-0615 E-mail: bhall@envirotech-inc.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Envirotech

New Mexico Well Driller License No.: WD-1521 Expiration Date: 11/30/2022

IV. WELL INFORMATION: Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 36 deg, 1 min, 57.77 sec
Longitude: -107 deg, 20 min, 54.78 sec, NAD 83

2) Reason(s) for plugging well(s):

Depth to groundwater in the well has been confirmed. Borehole is no longer needed.

3) Was well used for any type of monitoring program? no If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? no If yes, provide additional detail, including analytical results and/or laboratory report(s): _____

5) Static water level: 100.45 feet below land surface / feet above land surface (circle one)

6) Depth of the well: 144.3 feet

STATE ENGINEER'S OFFICE
1500 DOOR, NEW MEXICO
2022 AUG -2 PM 8:14

- 7) Inside diameter of innermost casing: 6 inches.
- 8) Casing material: 2" slotted pvc was inserted to prevent cave-in, entire length of pvc will be removed
- 9) The well was constructed with:
 - an open-hole production interval, state the open interval: n/a
 - a well screen or perforated pipe, state the screened interval(s): n/a
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? n/a
- 11) Was the well built with surface casing? no If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? _____ If yes, please describe:

n/a
- 12) Has all pumping equipment and associated piping been removed from the well? n/a If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

PVC casing will be removed prior to plugging. The 6" bore hole will be filled with hydrated bentonite utilizing a tremie pipe. The bore hole will be filled from the bottom upwards to ground surface. The tremie pipe will remain submerged in the bentonite slurry through the sealing process. The drill cuttings will be used to recoutour the surface
- 2) Will well head be cut-off below land surface after plugging? n/a

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 211.5
- 4) Type of Cement proposed: bentonite
- 5) Proposed cement grout mix: _____ gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____ batch-mixed and delivered to the site
x mixed on site

7) Grout additives requested, and percent by dry weight relative to cement:

[Empty box for grout additives information]

8) Additional notes and calculations:

[Empty box for additional notes and calculations]

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

[Large empty box for additional information]

STATE ENGINEERS OFFICE
ALBUQUERQUE, NEW MEXICO
2022 AUG -2 AM 9:14

VIII. SIGNATURE:

I, Brittany Hall, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Brittany Hall

Digitally signed by Brittany Hall
Date: 2022.08.01 15:25:45 -06'00'

8/1/2022

Signature of Applicant

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

- Approved subject to the attached conditions.
- Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 16th day of August, 2022

Mike A. Hamman, P.E.
State Engineer

_____, New Mexico State Engineer

By: Amy Clyde
Amy Clyde, Water Resources Prof I

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			
Bottom of proposed interval of grout placement (ft bgl)			
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch-mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

Mike A. Hamman, PE
State Engineer

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			3 feet
Bottom of proposed sealant of grout placement (ft bgl)			144.3 feet
Theoretical volume of sealant required per interval (gallons)			211.5 gallons
Proposed abandonment sealant (manufacturer and trade name)			Bentonite chips

STATE ENGINEERS OFFICE
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 2022 AUG -2 AM 8:14

**NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL PLUGGING PLAN OF OPERATIONS
CONDITIONS OF APPROVAL**

This plugging plan is approved subject to the following conditions of approval:

Well File No. RG-A0616 POD1

Permittee: EOG Resources
104 S 4th St
Artesia, NM 88210

Location: 36° 1' 57.77" N / -107° 20' 54.78" W

Plugging Plan File Date: August 2, 2022

1. The well shall be plugged in accordance with Subsection C of Section 19.27.4.30 NMAC by a well driller licensed in the State of New Mexico.
2. The well driller shall pull the well casing prior to placement of approved sealant.

Theoretical volume of sealant required for abandonment of a 6"-diameter bore hole is approximately 1.469 gallons/foot after the *casing is pulled*. Theoretical volume of sealant required was calculated to be 211.977 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of the well.

3. The Well Plugging Plan of Operations submitted requests use of hydrated bentonite as a sealant.
4. Paragraph (1) of Subsection C of 19.27.4.30 NMAC specifies placement of sealant from the bottom of the well upward by use of a tremie pipe. In the alternative, surface pour is approved for this small diameter shallow well. The driller shall sound the top of the chip column periodically and record the column height and volume of sealant emplaced in order to gauge the appropriate progress of plugging and to establish that the chips have not bridged inappropriately uphole. If bridging occurs, it shall be rectified before plugging continues. In addition to these instructions, the driller shall follow the manufacturer's instructions for screening and the pouring of the bentonite product from the surface.
5. When placing bentonite chips above static water level, potable water shall be added to the borehole/casing in increments such that the chips are discharged into a small amount of standing water. If borehole lithology is too permeable to retain added water prior to chip placement, the driller shall discharge potable water into the borehole following every bag of chips, in accordance with the manufacturer's instructions, to provide the bentonite sufficient available water to swell and seal the borehole.
6. Should the NMED or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require, a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection,

**NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL PLUGGING PLAN OF OPERATIONS
CONDITIONS OF APPROVAL**

pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.

7. The well driller shall file a complete plugging record with the State Engineer and the permit holder no later than 30 days after completion of the plugging.

The NMOSE Well Plugging Plan of Operations, as annotated, is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 16th day of August 2022.

Mike A. Hamman, P.E., State Engineer

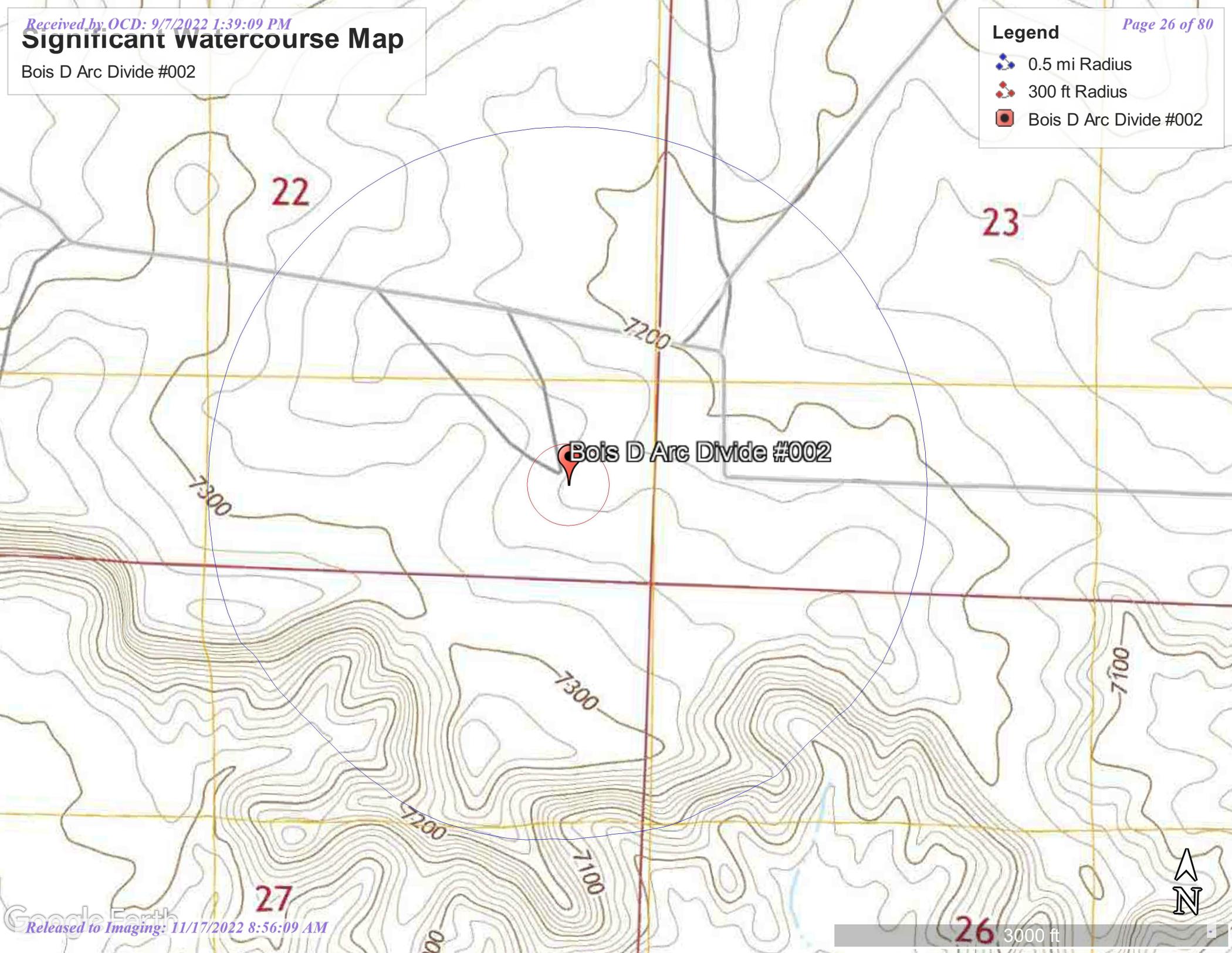
By: 
Amy Clyde, Water Resources Professional I
District 1, Water Resource Allocation Program

Significant Watercourse Map

Bois D Arc Divide #002

Legend

-  0.5 mi Radius
-  300 ft Radius
-  Bois D Arc Divide #002





U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetland Map



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov

May 23, 2022

Wetlands

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

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.

National Flood Hazard Layer FIRMette



107°20'57"W 36°2'1"N



Legend

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

- | | | |
|------------------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE)
<i>Zone A, V, A99</i> |
| | | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | | 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 <i>Zone X</i> |
| | | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> |
| | | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> |
| | | Area with Flood Risk due to Levee <i>Zone D</i> |
| OTHER AREAS | | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i> |
| | | Effective LOMRs |
| GENERAL STRUCTURES | | Area of Undetermined Flood Hazard <i>Zone D</i> |
| | | Channel, Culvert, or Storm Sewer |
| OTHER FEATURES | | Levee, Dike, or Floodwall |
| | | 20.2 Cross Sections with 1% Annual Chance |
| | | 17.5 Water Surface Elevation |
| | | Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |
| MAP PANELS | | Coastal Transect Baseline |
| | | Profile Baseline |
| | | Hydrographic Feature |
| | | Digital Data Available |
| | | No Digital Data Available |
| | | Unmapped |
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



Attachment B

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

November 08, 2021

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

RE: Bois D Arc Divide 22 002

OrderNo.: 2110A99

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/22/2021 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 white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2110A99**

Date Reported: **11/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: Comp 1 (1') bottom

Project: Bois D Arc Divide 22 002

Collection Date: 10/21/2021 3:05:00 PM

Lab ID: 2110A99-001

Matrix: SOIL

Received Date: 10/22/2021 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	10/28/2021 10:02:11 PM	63641
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/27/2021 11:31:17 PM	63551
Surr: BFB	95.3	70-130		%Rec	1	10/27/2021 11:31:17 PM	63551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	250	50		mg/Kg	5	10/29/2021 12:49:51 PM	63573
Motor Oil Range Organics (MRO)	430	250		mg/Kg	5	10/29/2021 12:49:51 PM	63573
Surr: DNOP	134	70-130	S	%Rec	5	10/29/2021 12:49:51 PM	63573
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/27/2021 11:31:17 PM	63551
Toluene	ND	0.049		mg/Kg	1	10/27/2021 11:31:17 PM	63551
Ethylbenzene	ND	0.049		mg/Kg	1	10/27/2021 11:31:17 PM	63551
Xylenes, Total	ND	0.098		mg/Kg	1	10/27/2021 11:31:17 PM	63551
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%Rec	1	10/27/2021 11:31:17 PM	63551
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	10/27/2021 11:31:17 PM	63551
Surr: Dibromofluoromethane	96.6	70-130		%Rec	1	10/27/2021 11:31:17 PM	63551
Surr: Toluene-d8	104	70-130		%Rec	1	10/27/2021 11:31:17 PM	63551

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 **2110A99**

Date Reported: **11/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: Comp 2 (1') bottom

Project: Bois D Arc Divide 22 002

Collection Date: 10/21/2021 3:20:00 PM

Lab ID: 2110A99-002

Matrix: SOIL

Received Date: 10/22/2021 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	59		mg/Kg	20	10/28/2021 10:14:36 PM	63641
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/28/2021 2:38:40 AM	63551
Surr: BFB	95.8	70-130		%Rec	5	10/28/2021 2:38:40 AM	63551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	360	49		mg/Kg	5	10/29/2021 1:00:39 PM	63573
Motor Oil Range Organics (MRO)	300	250		mg/Kg	5	10/29/2021 1:00:39 PM	63573
Surr: DNOP	142	70-130	S	%Rec	5	10/29/2021 1:00:39 PM	63573
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	10/28/2021 2:38:40 AM	63551
Toluene	ND	0.25		mg/Kg	5	10/28/2021 2:38:40 AM	63551
Ethylbenzene	ND	0.25		mg/Kg	5	10/28/2021 2:38:40 AM	63551
Xylenes, Total	ND	0.50		mg/Kg	5	10/28/2021 2:38:40 AM	63551
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%Rec	5	10/28/2021 2:38:40 AM	63551
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	10/28/2021 2:38:40 AM	63551
Surr: Dibromofluoromethane	97.6	70-130		%Rec	5	10/28/2021 2:38:40 AM	63551
Surr: Toluene-d8	109	70-130		%Rec	5	10/28/2021 2:38:40 AM	63551

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 **2110A99**

Date Reported: **11/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: Comp 3 (1') wall

Project: Bois D Arc Divide 22 002

Collection Date: 10/21/2021 3:40:00 PM

Lab ID: 2110A99-003

Matrix: SOIL

Received Date: 10/22/2021 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	10/28/2021 10:27:01 PM	63641
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2021 3:05:21 AM	63551
Surr: BFB	94.6	70-130		%Rec	1	10/28/2021 3:05:21 AM	63551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/28/2021 3:36:22 AM	63573
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/28/2021 3:36:22 AM	63573
Surr: DNOP	157	70-130	S	%Rec	1	10/28/2021 3:36:22 AM	63573
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	10/28/2021 3:05:21 AM	63551
Toluene	ND	0.047		mg/Kg	1	10/28/2021 3:05:21 AM	63551
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2021 3:05:21 AM	63551
Xylenes, Total	ND	0.094		mg/Kg	1	10/28/2021 3:05:21 AM	63551
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%Rec	1	10/28/2021 3:05:21 AM	63551
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	10/28/2021 3:05:21 AM	63551
Surr: Dibromofluoromethane	99.0	70-130		%Rec	1	10/28/2021 3:05:21 AM	63551
Surr: Toluene-d8	108	70-130		%Rec	1	10/28/2021 3:05:21 AM	63551

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 **2110A99**

Date Reported: **11/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: Comp 4 (1') wall

Project: Bois D Arc Divide 22 002

Collection Date: 10/21/2021 4:05:00 PM

Lab ID: 2110A99-004

Matrix: SOIL

Received Date: 10/22/2021 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	10/28/2021 10:39:26 PM	63641
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2021 3:32:03 AM	63551
Surr: BFB	90.0	70-130		%Rec	1	10/28/2021 3:32:03 AM	63551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/28/2021 3:46:53 AM	63573
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/28/2021 3:46:53 AM	63573
Surr: DNOP	96.0	70-130		%Rec	1	10/28/2021 3:46:53 AM	63573
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	10/28/2021 3:32:03 AM	63551
Toluene	ND	0.047		mg/Kg	1	10/28/2021 3:32:03 AM	63551
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2021 3:32:03 AM	63551
Xylenes, Total	ND	0.093		mg/Kg	1	10/28/2021 3:32:03 AM	63551
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%Rec	1	10/28/2021 3:32:03 AM	63551
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	10/28/2021 3:32:03 AM	63551
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	10/28/2021 3:32:03 AM	63551
Surr: Toluene-d8	105	70-130		%Rec	1	10/28/2021 3:32:03 AM	63551

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 **2110A99**

Date Reported: **11/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: Comp 5 (1') wall

Project: Bois D Arc Divide 22 002

Collection Date: 10/21/2021 4:20:00 PM

Lab ID: 2110A99-005

Matrix: SOIL

Received Date: 10/22/2021 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	10/28/2021 10:51:50 PM	63641
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2021 3:58:44 AM	63551
Surr: BFB	92.1	70-130		%Rec	1	10/28/2021 3:58:44 AM	63551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/28/2021 3:57:24 AM	63573
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/28/2021 3:57:24 AM	63573
Surr: DNOP	115	70-130		%Rec	1	10/28/2021 3:57:24 AM	63573
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	10/28/2021 3:58:44 AM	63551
Toluene	ND	0.047		mg/Kg	1	10/28/2021 3:58:44 AM	63551
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2021 3:58:44 AM	63551
Xylenes, Total	ND	0.093		mg/Kg	1	10/28/2021 3:58:44 AM	63551
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%Rec	1	10/28/2021 3:58:44 AM	63551
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	10/28/2021 3:58:44 AM	63551
Surr: Dibromofluoromethane	103	70-130		%Rec	1	10/28/2021 3:58:44 AM	63551
Surr: Toluene-d8	107	70-130		%Rec	1	10/28/2021 3:58:44 AM	63551

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 **2110A99**

Date Reported: **11/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: Comp 6 (1') wall

Project: Bois D Arc Divide 22 002

Collection Date: 10/21/2021 4:35:00 PM

Lab ID: 2110A99-006

Matrix: SOIL

Received Date: 10/22/2021 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	10/28/2021 11:04:15 PM	63641
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/28/2021 4:25:25 AM	63551
Surr: BFB	93.9	70-130		%Rec	1	10/28/2021 4:25:25 AM	63551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/28/2021 4:07:57 AM	63573
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/28/2021 4:07:57 AM	63573
Surr: DNOP	98.4	70-130		%Rec	1	10/28/2021 4:07:57 AM	63573
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	10/28/2021 4:25:25 AM	63551
Toluene	ND	0.049		mg/Kg	1	10/28/2021 4:25:25 AM	63551
Ethylbenzene	ND	0.049		mg/Kg	1	10/28/2021 4:25:25 AM	63551
Xylenes, Total	ND	0.098		mg/Kg	1	10/28/2021 4:25:25 AM	63551
Surr: 1,2-Dichloroethane-d4	93.0	70-130		%Rec	1	10/28/2021 4:25:25 AM	63551
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	10/28/2021 4:25:25 AM	63551
Surr: Dibromofluoromethane	99.5	70-130		%Rec	1	10/28/2021 4:25:25 AM	63551
Surr: Toluene-d8	107	70-130		%Rec	1	10/28/2021 4:25:25 AM	63551

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#: 2110A99

08-Nov-21

Client: GHD Midland
Project: Bois D Arc Divide 22 002

Sample ID: MB-63641	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63641	RunNo: 82423								
Prep Date: 10/28/2021	Analysis Date: 10/28/2021	SeqNo: 2925088	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63641	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63641	RunNo: 82423								
Prep Date: 10/28/2021	Analysis Date: 10/28/2021	SeqNo: 2925089	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.8	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110A99

08-Nov-21

Client: GHD Midland
Project: Bois D Arc Divide 22 002

Sample ID: MB-63573	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63573	RunNo: 82349								
Prep Date: 10/26/2021	Analysis Date: 10/28/2021	SeqNo: 2923815	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		126	70	130			

Sample ID: LCS-63573	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63573	RunNo: 82480								
Prep Date: 10/26/2021	Analysis Date: 11/1/2021	SeqNo: 2928293	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	117	68.9	135			
Surr: DNOP	5.9		5.000		117	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#: 2110A99

08-Nov-21

Client: GHD Midland
Project: Bois D Arc Divide 22 002

Sample ID: mb-63551	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 63551	RunNo: 82380								
Prep Date: 10/25/2021	Analysis Date: 10/27/2021	SeqNo: 2922403	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: 1,2-Dichloroethane-d4	0.47		0.5000		94.7	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.5	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.53		0.5000		107	70	130			

Sample ID: 2110a99-001ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: Comp 1 (1') bottom	Batch ID: 63551	RunNo: 82396								
Prep Date: 10/25/2021	Analysis Date: 10/27/2021	SeqNo: 2924141	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9843	0	94.9	73.5	138			
Toluene	0.92	0.049	0.9843	0	93.8	83	131			
Ethylbenzene	0.93	0.049	0.9843	0	94.0	84.9	132			
Xylenes, Total	2.7	0.098	2.953	0	90.6	79.6	144			
Surr: 1,2-Dichloroethane-d4	0.47		0.4921		96.4	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4921		94.6	70	130			
Surr: Dibromofluoromethane	0.49		0.4921		100	70	130			
Surr: Toluene-d8	0.51		0.4921		104	70	130			

Sample ID: 2110a99-001amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: Comp 1 (1') bottom	Batch ID: 63551	RunNo: 82396								
Prep Date: 10/25/2021	Analysis Date: 10/28/2021	SeqNo: 2924142	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	0.9990	0	92.5	73.5	138	1.06	20	
Toluene	0.95	0.050	0.9990	0	94.9	83	131	2.67	20	
Ethylbenzene	0.90	0.050	0.9990	0	89.9	84.9	132	3.02	20	
Xylenes, Total	2.6	0.10	2.997	0	87.7	79.6	144	1.72	20	
Surr: 1,2-Dichloroethane-d4	0.49		0.4995		97.7	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.4995		100	70	130	0	0	
Surr: Dibromofluoromethane	0.51		0.4995		102	70	130	0	0	
Surr: Toluene-d8	0.55		0.4995		109	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#: 2110A99

08-Nov-21

Client: GHD Midland
Project: Bois D Arc Divide 22 002

Sample ID: Ics-63551	SampType: LCS4		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: BatchQC	Batch ID: 63551		RunNo: 82396							
Prep Date: 10/25/2021	Analysis Date: 10/27/2021		SeqNo: 2924153		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	93.0	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.5	80	120			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.9	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.9	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		102	70	130			
Surr: Toluene-d8	0.53		0.5000		106	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#: 2110A99

08-Nov-21

Client: GHD Midland
Project: Bois D Arc Divide 22 002

Sample ID: ics-63551	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 63551		RunNo: 82380							
Prep Date: 10/25/2021	Analysis Date: 10/27/2021		SeqNo: 2922442		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	106	70	130			
Surr: BFB	500		500.0		101	70	130			

Sample ID: mb-63551	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: 63551		RunNo: 82380							
Prep Date: 10/25/2021	Analysis Date: 10/27/2021		SeqNo: 2922445		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	480		500.0		96.9	70	130			

Qualifiers:

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



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: 2110A99 RcptNo: 1

Received By: Juan Rojas 10/22/2021 9:05:00 AM

[Handwritten signature]

Completed By: Isaiah Ortiz 10/22/2021 11:48:39 AM

[Handwritten initials I-O]

Reviewed By: jn 10/22/21

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Client

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: [Signature] 10.22.21

Special Handling (if applicable)

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

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.2, Good, Not Present, [], [], []

Chain-of-Custody Record

Client: GHD for EOG

Mailing Address:

621 Indian School Rd NE #200

Phone #: 505-269-0088

email or Fax#: christine.matthews@ghd.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Turn-Around Time:

Standard Rush

Project Name:

Bois D Arc ^{Divide} 22#002

Project #:

12565407

Project Manager:

Becky Haskell

Sampler: C. Matthews

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 04.02202 (°C)

Date	Time	Matrix	Sample Name
10/21/21	1505	Soil	Comp 1 (1") bottom
10/21/21	1520	Soil	Comp 2 (1") bottom
10/21/21	1540	Soil	Comp 3 (1") wall
10/21/21	1605	Soil	Comp 4 (1") wall
10/21/21	1620	Soil	Comp 5 (1") wall
10/21/21	1635	Soil	Comp 6 (1") wall

Container Type and #

Preservative Type

HEAL No. 2116A99

001

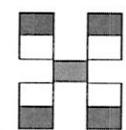
002

003

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006



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX/MTBE/TMB's (6021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl ⁻ , Br ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ⁻ , SO ₄ ⁻	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X					X			

Date: 10/21/21 Time: 9:00 Relinquished by: [Signature]

Received by: [Signature] Via: 000 Date: 10/22/21 Time: 9:05

Remarks: BTEX

Date: 10/21/21 Time: 9:00 Relinquished by: [Signature]

Received by: [Signature] Via: 000 Date: 10/22/21 Time: 9:05

Remarks: TPH GRO DRO/ARO

Date: 10/21/21 Time: 9:00 Relinquished by: [Signature]

Received by: [Signature] Via: 000 Date: 10/22/21 Time: 9:05

Remarks: Chloride only

Thanks!



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

June 02, 2022

Chase Settle

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Bois De Arc 22 002

OrderNo.: 2205A86

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/25/2022 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,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2205A86**

Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: TP-1 (2')

Project: Bois De Arc 22 002

Collection Date: 5/24/2022 12:00:00 PM

Lab ID: 2205A86-001

Matrix: MEOH (SOIL) **Received Date:** 5/25/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	ND	60		mg/Kg	20	5/25/2022 9:54:38 PM	67684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/25/2022 3:57:15 PM	67679
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/25/2022 3:57:15 PM	67679
Surr: DNOP	94.6	51.1-141		%Rec	1	5/25/2022 3:57:15 PM	67679
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	5/25/2022 3:19:44 PM	G88270
Surr: BFB	94.7	37.7-212		%Rec	1	5/25/2022 3:19:44 PM	G88270
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	5/25/2022 3:19:44 PM	R88270
Toluene	ND	0.038		mg/Kg	1	5/25/2022 3:19:44 PM	R88270
Ethylbenzene	ND	0.038		mg/Kg	1	5/25/2022 3:19:44 PM	R88270
Xylenes, Total	ND	0.076		mg/Kg	1	5/25/2022 3:19:44 PM	R88270
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	5/25/2022 3:19:44 PM	R88270

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 **2205A86**

Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: TP-1 (4')

Project: Bois De Arc 22 002

Collection Date: 5/24/2022 12:05:00 PM

Lab ID: 2205A86-002

Matrix: MEOH (SOIL) **Received Date:** 5/25/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	90	60		mg/Kg	20	5/25/2022 10:07:02 PM	67684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/25/2022 4:21:02 PM	67679
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/25/2022 4:21:02 PM	67679
Surr: DNOP	91.4	51.1-141		%Rec	1	5/25/2022 4:21:02 PM	67679
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	5/25/2022 3:43:12 PM	G88270
Surr: BFB	99.6	37.7-212		%Rec	1	5/25/2022 3:43:12 PM	G88270
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	5/25/2022 3:43:12 PM	R88270
Toluene	ND	0.043		mg/Kg	1	5/25/2022 3:43:12 PM	R88270
Ethylbenzene	ND	0.043		mg/Kg	1	5/25/2022 3:43:12 PM	R88270
Xylenes, Total	ND	0.087		mg/Kg	1	5/25/2022 3:43:12 PM	R88270
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	5/25/2022 3:43:12 PM	R88270

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 **2205A86**

Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: TP-2 (2')

Project: Bois De Arc 22 002

Collection Date: 5/24/2022 12:20:00 PM

Lab ID: 2205A86-003

Matrix: MEOH (SOIL) **Received Date:** 5/25/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	ND	60		mg/Kg	20	5/25/2022 10:19:26 PM	67684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/25/2022 4:44:53 PM	67679
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/25/2022 4:44:53 PM	67679
Surr: DNOP	97.7	51.1-141		%Rec	1	5/25/2022 4:44:53 PM	67679
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	5/25/2022 4:06:44 PM	G88270
Surr: BFB	95.2	37.7-212		%Rec	1	5/25/2022 4:06:44 PM	G88270
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	5/25/2022 4:06:44 PM	R88270
Toluene	ND	0.040		mg/Kg	1	5/25/2022 4:06:44 PM	R88270
Ethylbenzene	ND	0.040		mg/Kg	1	5/25/2022 4:06:44 PM	R88270
Xylenes, Total	ND	0.081		mg/Kg	1	5/25/2022 4:06:44 PM	R88270
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	5/25/2022 4:06:44 PM	R88270

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 **2205A86**

Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: TP-2 (4')

Project: Bois De Arc 22 002

Collection Date: 5/24/2022 12:25:00 PM

Lab ID: 2205A86-004

Matrix: MEOH (SOIL) **Received Date:** 5/25/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	96	60		mg/Kg	20	5/25/2022 10:31:50 PM	67684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/25/2022 5:08:38 PM	67679
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/25/2022 5:08:38 PM	67679
Surr: DNOP	98.1	51.1-141		%Rec	1	5/25/2022 5:08:38 PM	67679
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	5/25/2022 4:30:13 PM	G88270
Surr: BFB	95.6	37.7-212		%Rec	1	5/25/2022 4:30:13 PM	G88270
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	5/25/2022 4:30:13 PM	R88270
Toluene	ND	0.042		mg/Kg	1	5/25/2022 4:30:13 PM	R88270
Ethylbenzene	ND	0.042		mg/Kg	1	5/25/2022 4:30:13 PM	R88270
Xylenes, Total	ND	0.084		mg/Kg	1	5/25/2022 4:30:13 PM	R88270
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	5/25/2022 4:30:13 PM	R88270

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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2205A86

02-Jun-22

Client: EOG
Project: Bois De Arc 22 002

Sample ID: MB-67684	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 67684	RunNo: 88280								
Prep Date: 5/25/2022	Analysis Date: 5/25/2022	SeqNo: 3130699	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67684	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67684	RunNo: 88280								
Prep Date: 5/25/2022	Analysis Date: 5/25/2022	SeqNo: 3130700	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2205A86

02-Jun-22

Client: EOG
Project: Bois De Arc 22 002

Sample ID: MB-67679	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67679	RunNo: 88246								
Prep Date: 5/25/2022	Analysis Date: 5/25/2022	SeqNo: 3129579	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		91.8	51.1	141			

Sample ID: LCS-67679	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67679	RunNo: 88246								
Prep Date: 5/25/2022	Analysis Date: 5/25/2022	SeqNo: 3129580	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.7	64.4	127			
Surr: DNOP	4.5		5.000		89.9	51.1	141			

Sample ID: MB-67680	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67680	RunNo: 88246								
Prep Date: 5/25/2022	Analysis Date: 5/26/2022	SeqNo: 3132682	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		93.1	51.1	141			

Sample ID: LCS-67680	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67680	RunNo: 88246								
Prep Date: 5/25/2022	Analysis Date: 5/26/2022	SeqNo: 3132685	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.1	51.1	141			

Sample ID: MB-67736	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67736	RunNo: 88246								
Prep Date: 5/26/2022	Analysis Date: 5/27/2022	SeqNo: 3133612	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		108	51.1	141			

Sample ID: LCS-67736	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67736	RunNo: 88246								
Prep Date: 5/26/2022	Analysis Date: 5/27/2022	SeqNo: 3133613	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.7	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2205A86

02-Jun-22

Client: EOG
Project: Bois De Arc 22 002

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: G88270		RunNo: 88270							
Prep Date:	Analysis Date: 5/25/2022		SeqNo: 3130051		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		98.4	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: G88270		RunNo: 88270							
Prep Date:	Analysis Date: 5/25/2022		SeqNo: 3130052		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	109	72.3	137			
Surr: BFB	2100		1000		210	37.7	212			

Sample ID: mb-67661	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 67661		RunNo: 88270							
Prep Date: 5/24/2022	Analysis Date: 5/26/2022		SeqNo: 3130075		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		90.3	37.7	212			

Sample ID: lcs-67661	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 67661		RunNo: 88270							
Prep Date: 5/24/2022	Analysis Date: 5/25/2022		SeqNo: 3130076		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2100		1000		205	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2205A86

02-Jun-22

Client: EOG
Project: Bois De Arc 22 002

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: R88270		RunNo: 88270							
Prep Date:	Analysis Date: 5/25/2022		SeqNo: 3130099		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	0.99		1.000		99.0	70	130			

Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: R88270		RunNo: 88270							
Prep Date:	Analysis Date: 5/25/2022		SeqNo: 3130100		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	95.1	80	120			
Toluene	0.99	0.050	1.000	0	98.5	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-67661	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 67661		RunNo: 88270							
Prep Date: 5/24/2022	Analysis Date: 5/26/2022		SeqNo: 3130123		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		96.4	70	130			

Sample ID: LCS-67661	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 67661		RunNo: 88270							
Prep Date: 5/24/2022	Analysis Date: 5/25/2022		SeqNo: 3130124		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		98.3	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 Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2205A86

RcptNo: 1

Received By: Juan Rojas

5/25/2022 7:05:00 AM

[Signature]

Completed By: Cheyenne Cason

5/25/2022 8:08:14 AM

[Signature]

Reviewed By: [Signature] 5-25-22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: jn 5/25/22

Special Handling (if applicable)

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

Person Notified:
By Whom:
Regarding:
Client Instructions:
Date:
Via: [] eMail [] Phone [] Fax [] In Person

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.

Chain-of-Custody Record

Client: EDS Resources

Turn-Around Time: Thur 4:00 PM
 Standard Rush

Mailing Address: Chase St Seattle

Project Name: Bois D Arc 22 #002

Phone #: 505-269-0088

Project #: 12565407

email or Fax#: christine.matthews@jrd.com

Project Manager: Christine Matthews

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

Sampler: Christine Matthews

Accreditation: Az Compliance NELAC Other

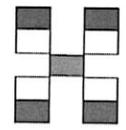
On Ice: Yes No

EDD (Type)

of Coolers: 1

Cooler Temp (including CF): 26-27.6 (27.6°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
5/24	1200	Soil	TP-1 (2')	(1) 4oz jar	ice	001
5/24	1205	Soil	TP-1 (4')	(1) 4oz jar	ice	002
5/24	1220	Soil	TP-2 (2')	(1) 4oz jar	ice	003
5/24	1225	Soil	TP-2 (4')	(1) 4oz jar	ice	004



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request											
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BTEX / 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)		

Date: 5/24/22 Time: 1530 Relinquished by: [Signature]

Received by: [Signature] Via: Hand Date: 5/24/22 Time: 1530

Remarks:

Date: 5/24/22 Time: 1806 Relinquished by: [Signature]

Received by: [Signature] Via: courier Date: 5/24/22 Time: 7:05

Remarks:

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 noted on the analytical report.



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

July 29, 2022

Christine Mathews

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX:

RE: Bois D 2

OrderNo.: 2207971

Dear Christine Mathews:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/20/2022 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,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2207971**

Date Reported: **7/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: Bois2 - SN

Project: Bois D 2

Collection Date: 7/20/2022 10:10:00 AM

Lab ID: 2207971-001

Matrix: SOIL

Received Date: 7/20/2022 12:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	61		mg/Kg	20	7/21/2022 10:42:48 AM	68948
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/21/2022 11:25:10 AM	68939
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/21/2022 11:25:10 AM	68939
Surr: DNOP	107	51.1-141		%Rec	1	7/21/2022 11:25:10 AM	68939
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/21/2022 9:31:00 AM	68936
Surr: BFB	96.7	37.7-212		%Rec	1	7/21/2022 9:31:00 AM	68936
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	7/21/2022 9:31:00 AM	68936
Toluene	ND	0.049		mg/Kg	1	7/21/2022 9:31:00 AM	68936
Ethylbenzene	ND	0.049		mg/Kg	1	7/21/2022 9:31:00 AM	68936
Xylenes, Total	ND	0.099		mg/Kg	1	7/21/2022 9:31:00 AM	68936
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	7/21/2022 9:31:00 AM	68936

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 **2207971**

Date Reported: **7/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: Bois2 - SE

Project: Bois D 2

Collection Date: 7/20/2022 10:15:00 AM

Lab ID: 2207971-002

Matrix: SOIL

Received Date: 7/20/2022 12:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/21/2022 10:55:10 AM	68948
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	7/21/2022 11:48:55 AM	68939
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	7/21/2022 11:48:55 AM	68939
Surr: DNOP	110	51.1-141		%Rec	1	7/21/2022 11:48:55 AM	68939
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/21/2022 9:51:00 AM	68936
Surr: BFB	96.1	37.7-212		%Rec	1	7/21/2022 9:51:00 AM	68936
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	7/21/2022 9:51:00 AM	68936
Toluene	ND	0.050		mg/Kg	1	7/21/2022 9:51:00 AM	68936
Ethylbenzene	ND	0.050		mg/Kg	1	7/21/2022 9:51:00 AM	68936
Xylenes, Total	ND	0.099		mg/Kg	1	7/21/2022 9:51:00 AM	68936
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	7/21/2022 9:51:00 AM	68936

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 **2207971**

Date Reported: **7/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: Bois2 - SS

Project: Bois D 2

Collection Date: 7/20/2022 10:20:00 AM

Lab ID: 2207971-003

Matrix: SOIL

Received Date: 7/20/2022 12:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/21/2022 11:07:31 AM	68948
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/21/2022 12:12:35 PM	68939
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/21/2022 12:12:35 PM	68939
Surr: DNOP	96.8	51.1-141		%Rec	1	7/21/2022 12:12:35 PM	68939
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/21/2022 10:11:00 AM	68936
Surr: BFB	95.6	37.7-212		%Rec	1	7/21/2022 10:11:00 AM	68936
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	7/21/2022 10:11:00 AM	68936
Toluene	ND	0.050		mg/Kg	1	7/21/2022 10:11:00 AM	68936
Ethylbenzene	ND	0.050		mg/Kg	1	7/21/2022 10:11:00 AM	68936
Xylenes, Total	ND	0.099		mg/Kg	1	7/21/2022 10:11:00 AM	68936
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	7/21/2022 10:11:00 AM	68936

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 **2207971**

Date Reported: **7/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: Bois2 - SW

Project: Bois D 2

Collection Date: 7/20/2022 10:25:00 AM

Lab ID: 2207971-004

Matrix: SOIL

Received Date: 7/20/2022 12:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	61		mg/Kg	20	7/21/2022 11:19:52 AM	68948
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/21/2022 12:36:15 PM	68939
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/21/2022 12:36:15 PM	68939
Surr: DNOP	99.7	51.1-141		%Rec	1	7/21/2022 12:36:15 PM	68939
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/21/2022 10:30:00 AM	68936
Surr: BFB	93.1	37.7-212		%Rec	1	7/21/2022 10:30:00 AM	68936
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	7/21/2022 10:30:00 AM	68936
Toluene	ND	0.050		mg/Kg	1	7/21/2022 10:30:00 AM	68936
Ethylbenzene	ND	0.050		mg/Kg	1	7/21/2022 10:30:00 AM	68936
Xylenes, Total	ND	0.10		mg/Kg	1	7/21/2022 10:30:00 AM	68936
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	7/21/2022 10:30:00 AM	68936

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 **2207971**

Date Reported: **7/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: Bois2 - F1

Project: Bois D 2

Collection Date: 7/20/2022 10:30:00 AM

Lab ID: 2207971-005

Matrix: SOIL

Received Date: 7/20/2022 12:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/21/2022 11:32:13 AM	68948
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/21/2022 1:18:49 PM	68939
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/21/2022 1:18:49 PM	68939
Surr: DNOP	110	51.1-141		%Rec	1	7/21/2022 1:18:49 PM	68939
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/21/2022 10:50:00 AM	68936
Surr: BFB	94.4	37.7-212		%Rec	1	7/21/2022 10:50:00 AM	68936
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	7/21/2022 10:50:00 AM	68936
Toluene	ND	0.049		mg/Kg	1	7/21/2022 10:50:00 AM	68936
Ethylbenzene	ND	0.049		mg/Kg	1	7/21/2022 10:50:00 AM	68936
Xylenes, Total	ND	0.097		mg/Kg	1	7/21/2022 10:50:00 AM	68936
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	7/21/2022 10:50:00 AM	68936

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 **2207971**

Date Reported: **7/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: Bois2 - F2

Project: Bois D 2

Collection Date: 7/20/2022 10:35:00 AM

Lab ID: 2207971-006

Matrix: SOIL

Received Date: 7/20/2022 12:31:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	79	60		mg/Kg	20	7/21/2022 11:44:34 AM	68948
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	1500	28		mg/Kg	2	7/21/2022 11:29:54 AM	68939
Motor Oil Range Organics (MRO)	890	95		mg/Kg	2	7/21/2022 11:29:54 AM	68939
Surr: DNOP	101	51.1-141		%Rec	2	7/21/2022 11:29:54 AM	68939
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/21/2022 11:10:00 AM	68936
Surr: BFB	93.0	37.7-212		%Rec	1	7/21/2022 11:10:00 AM	68936
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	7/21/2022 11:10:00 AM	68936
Toluene	ND	0.049		mg/Kg	1	7/21/2022 11:10:00 AM	68936
Ethylbenzene	ND	0.049		mg/Kg	1	7/21/2022 11:10:00 AM	68936
Xylenes, Total	ND	0.099		mg/Kg	1	7/21/2022 11:10:00 AM	68936
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	7/21/2022 11:10:00 AM	68936

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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207971

29-Jul-22

Client: GHD
Project: Bois D 2

Sample ID: MB-68948	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68948	RunNo: 89679								
Prep Date: 7/21/2022	Analysis Date: 7/21/2022	SeqNo: 3194020	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68948	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68948	RunNo: 89679								
Prep Date: 7/21/2022	Analysis Date: 7/21/2022	SeqNo: 3194021	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207971

29-Jul-22

Client: GHD
Project: Bois D 2

Sample ID: LCS-68939	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68939	RunNo: 89671								
Prep Date: 7/20/2022	Analysis Date: 7/21/2022	SeqNo: 3192551	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	97.9	64.4	127			
Surr: DNOP	5.0		5.000		99.4	51.1	141			

Sample ID: MB-68939	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68939	RunNo: 89671								
Prep Date: 7/20/2022	Analysis Date: 7/21/2022	SeqNo: 3192552	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		115	51.1	141			

Sample ID: 2207971-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: Bois2 - SN	Batch ID: 68939	RunNo: 89638								
Prep Date: 7/20/2022	Analysis Date: 7/21/2022	SeqNo: 3194330	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	14	46.73	0	84.0	36.1	154			
Surr: DNOP	4.7		4.673		102	51.1	141			

Sample ID: 2207971-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: Bois2 - SN	Batch ID: 68939	RunNo: 89638								
Prep Date: 7/20/2022	Analysis Date: 7/21/2022	SeqNo: 3194331	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	14	48.31	0	89.4	36.1	154	9.62	33.9	
Surr: DNOP	4.9		4.831		100	51.1	141	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 Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207971

29-Jul-22

Client: GHD
Project: Bois D 2

Sample ID: ics-68936	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 68936	RunNo: 89674								
Prep Date: 7/20/2022	Analysis Date: 7/21/2022	SeqNo: 3192662	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	104	72.3	137			
Surr: BFB	2000		1000		202	37.7	212			

Sample ID: mb-68936	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68936	RunNo: 89674								
Prep Date: 7/20/2022	Analysis Date: 7/21/2022	SeqNo: 3192663	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		97.2	37.7	212			

Sample ID: 2207971-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: Bois2 - SN	Batch ID: 68936	RunNo: 89674								
Prep Date: 7/20/2022	Analysis Date: 7/21/2022	SeqNo: 3193285	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	24.98	0	115	70	130			
Surr: BFB	2300		999.0		227	37.7	212			S

Sample ID: 2207971-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: Bois2 - SN	Batch ID: 68936	RunNo: 89674								
Prep Date: 7/20/2022	Analysis Date: 7/21/2022	SeqNo: 3193286	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.93	0	102	70	130	12.8	20	
Surr: BFB	2000		997.0		199	37.7	212	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 Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207971

29-Jul-22

Client: GHD
Project: Bois D 2

Sample ID: Ics-68936	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68936	RunNo: 89674								
Prep Date: 7/20/2022	Analysis Date: 7/21/2022	SeqNo: 3192683	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.0	80	120			
Toluene	0.93	0.050	1.000	0	92.9	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.5	70	130			

Sample ID: mb-68936	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68936	RunNo: 89674								
Prep Date: 7/20/2022	Analysis Date: 7/21/2022	SeqNo: 3192684	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	0.93		1.000		93.5	70	130			

Sample ID: 2207971-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: Bois2 - SE	Batch ID: 68936	RunNo: 89674								
Prep Date: 7/20/2022	Analysis Date: 7/21/2022	SeqNo: 3193319	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9881	0	96.0	68.8	120			
Toluene	0.97	0.049	0.9881	0	98.4	73.6	124			
Ethylbenzene	0.98	0.049	0.9881	0	99.6	72.7	129			
Xylenes, Total	3.0	0.099	2.964	0	99.5	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9881		93.5	70	130			

Sample ID: 2207971-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: Bois2 - SE	Batch ID: 68936	RunNo: 89674								
Prep Date: 7/20/2022	Analysis Date: 7/21/2022	SeqNo: 3193320	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9980	0	95.3	68.8	120	0.279	20	
Toluene	0.97	0.050	0.9980	0	97.4	73.6	124	0.0299	20	
Ethylbenzene	0.99	0.050	0.9980	0	99.2	72.7	129	0.618	20	
Xylenes, Total	3.0	0.10	2.994	0	99.4	75.7	126	0.917	20	
Surr: 4-Bromofluorobenzene	0.93		0.9980		92.9	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 Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: GHD Work Order Number: 2207971 RcptNo: 1

Received By: Joseph Alderette 7/20/2022 12:31:00 PM
Completed By: Isaiah Ortiz 7/20/2022 1:29:59 PM
Reviewed By: [Signature] 7.20.22

[Handwritten initials/signature]

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Client

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: [Signature]

Special Handling (if applicable)

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

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

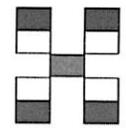
17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 16.1, Good, Not Present, [], [], []

Chain-of-Custody Record

Client: GHD For EOG
Direct Bill EOG
 Mailing Address:
 Phone #:
 email or Fax#: Christine.Matheus@ghd.com
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type)

Turn-Around Time:
 Standard Rush 24hour
 Project Name:
Bois D #2
 Project #:
12565407
 Project Manager:
Christine Matheus
 Sampler: W
 On Ice: Yes No
 # of Coolers: 1



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

Cooler Temp (including CF): 16.1 - 0 = 16.1 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
7-20-21	1010	S	Bois 2 - SN	14oz Jar		001
	1015		Bois 2 - SE			002
	1020		Bois 2 - SS			003
	1025		Bois 2 - SW			004
	1030		Bois 2 - F1			005
	1035		Bois 2 - F2			006

BTEX / 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)	TPH GRO/DRO/ORD 8015M	BTEX 8021B	Chloride 500

Date: 7-20-21 Time: 12:31 Relinquished by: [Signature]
 Received by: [Signature] Via: CD Date: 7-20-21 Time: 12:31
 Date: _____ Time: _____ Relinquished by: _____
 Received by: _____ Via: _____ Date: _____ Time: _____

Remarks: Direct Bill EOG Requests
Rush 24hour TAT

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



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

August 22, 2022

Christine Mathews

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Bois 2

OrderNo.: 2208954

Dear Christine Mathews:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/16/2022 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2208954**

Date Reported: **8/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: Bois #2 Floor N

Project: Bois 2

Collection Date: 8/16/2022 10:45:00 AM

Lab ID: 2208954-001

Matrix: SOIL

Received Date: 8/16/2022 12:15:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	75	60		mg/Kg	20	8/17/2022 11:48:30 AM	69557
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/17/2022 12:04:52 PM	69549
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/17/2022 12:04:52 PM	69549
Surr: DNOP	84.6	21-129		%Rec	1	8/17/2022 12:04:52 PM	69549
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/17/2022 1:47:00 PM	69547
Surr: BFB	103	37.7-212		%Rec	1	8/17/2022 1:47:00 PM	69547
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	8/17/2022 1:47:00 PM	69547
Toluene	ND	0.050		mg/Kg	1	8/17/2022 1:47:00 PM	69547
Ethylbenzene	ND	0.050		mg/Kg	1	8/17/2022 1:47:00 PM	69547
Xylenes, Total	ND	0.099		mg/Kg	1	8/17/2022 1:47:00 PM	69547
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	8/17/2022 1:47:00 PM	69547

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 **2208954**

Date Reported: **8/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: Bois #2 Floor S

Project: Bois 2

Collection Date: 8/16/2022 10:50:00 AM

Lab ID: 2208954-002

Matrix: SOIL

Received Date: 8/16/2022 12:15:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	100	60		mg/Kg	20	8/17/2022 12:00:56 PM	69557
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	41	14		mg/Kg	1	8/17/2022 12:18:47 PM	69549
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/17/2022 12:18:47 PM	69549
Surr: DNOP	88.8	21-129		%Rec	1	8/17/2022 12:18:47 PM	69549
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/17/2022 2:07:00 PM	69547
Surr: BFB	104	37.7-212		%Rec	1	8/17/2022 2:07:00 PM	69547
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	8/17/2022 2:07:00 PM	69547
Toluene	ND	0.048		mg/Kg	1	8/17/2022 2:07:00 PM	69547
Ethylbenzene	ND	0.048		mg/Kg	1	8/17/2022 2:07:00 PM	69547
Xylenes, Total	ND	0.096		mg/Kg	1	8/17/2022 2:07:00 PM	69547
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/17/2022 2:07:00 PM	69547

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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208954

22-Aug-22

Client: GHD
Project: Bois 2

Sample ID: MB-69557	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 69557	RunNo: 90334								
Prep Date: 8/17/2022	Analysis Date: 8/17/2022	SeqNo: 3224202	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-69557	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 69557	RunNo: 90334								
Prep Date: 8/17/2022	Analysis Date: 8/17/2022	SeqNo: 3224203	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208954

22-Aug-22

Client: GHD
Project: Bois 2

Sample ID: MB-69549	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 69549	RunNo: 90349								
Prep Date: 8/17/2022	Analysis Date: 8/17/2022	SeqNo: 3223174	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		78.7	21	129			

Sample ID: LCS-69549	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 69549	RunNo: 90349								
Prep Date: 8/17/2022	Analysis Date: 8/17/2022	SeqNo: 3223175	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	95.9	64.4	127			
Surr: DNOP	3.9		5.000		78.6	21	129			

Sample ID: 2208954-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: Bois #2 Floor N	Batch ID: 69549	RunNo: 90349								
Prep Date: 8/17/2022	Analysis Date: 8/17/2022	SeqNo: 3223185	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	15	49.26	0	101	36.1	154			
Surr: DNOP	3.9		4.926		78.6	21	129			

Sample ID: 2208954-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: Bois #2 Floor N	Batch ID: 69549	RunNo: 90349								
Prep Date: 8/17/2022	Analysis Date: 8/17/2022	SeqNo: 3223186	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	14	48.26	0	89.8	36.1	154	13.3	33.9	
Surr: DNOP	3.8		4.826		79.5	21	129	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 Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208954

22-Aug-22

Client: GHD
Project: Bois 2

Sample ID: ics-69547	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 69547	RunNo: 90339								
Prep Date: 8/16/2022	Analysis Date: 8/17/2022	SeqNo: 3223657	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	87.5	72.3	137			
Surr: BFB	2000		1000		205	37.7	212			

Sample ID: mb-69547	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 69547	RunNo: 90339								
Prep Date: 8/16/2022	Analysis Date: 8/17/2022	SeqNo: 3223658	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	37.7	212			

Sample ID: 2208954-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: Bois #2 Floor N	Batch ID: 69547	RunNo: 90339								
Prep Date: 8/16/2022	Analysis Date: 8/17/2022	SeqNo: 3223664	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.44	0	92.8	70	130			
Surr: BFB	2000		977.5		207	37.7	212			

Sample ID: 2208954-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: Bois #2 Floor N	Batch ID: 69547	RunNo: 90390								
Prep Date: 8/16/2022	Analysis Date: 8/18/2022	SeqNo: 3225324	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	24.90	0	89.6	70	130	1.63	20	
Surr: BFB	2000		996.0		206	37.7	212	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 Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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

WO#: 2208954

22-Aug-22

Client: GHD
Project: Bois 2

Sample ID: ics-69547	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 69547		RunNo: 90339							
Prep Date: 8/16/2022	Analysis Date: 8/17/2022		SeqNo: 3223687		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	93.3	80	120			
Toluene	0.96	0.050	1.000	0	96.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

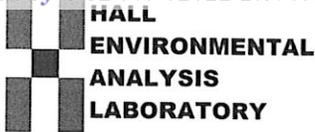
Sample ID: mb-69547	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 69547		RunNo: 90339							
Prep Date: 8/16/2022	Analysis Date: 8/17/2022		SeqNo: 3223688		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.5	70	130			

Sample ID: 2208954-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: Bois #2 Floor S	Batch ID: 69547		RunNo: 90339							
Prep Date: 8/16/2022	Analysis Date: 8/17/2022		SeqNo: 3223694		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9980	0	110	68.8	120			
Toluene	1.1	0.050	0.9980	0	115	73.6	124			
Ethylbenzene	1.2	0.050	0.9980	0	119	72.7	129			
Xylenes, Total	3.6	0.10	2.994	0	119	75.7	126			
Surr: 4-Bromofluorobenzene	0.99		0.9980		99.4	70	130			

Sample ID: 2208954-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: Bois #2 Floor S	Batch ID: 69547		RunNo: 90339							
Prep Date: 8/16/2022	Analysis Date: 8/17/2022		SeqNo: 3223695		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9940	0	102	68.8	120	8.41	20	
Toluene	1.1	0.050	0.9940	0	106	73.6	124	8.04	20	
Ethylbenzene	1.1	0.050	0.9940	0	110	72.7	129	8.43	20	
Xylenes, Total	3.3	0.099	2.982	0	109	75.7	126	8.83	20	
Surr: 4-Bromofluorobenzene	0.99		0.9940		100	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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	



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

Sample Log-In Check List

Client Name: GHD Midland Work Order Number: 2208954 RcptNo: 1

Received By: John Caldwell 8/16/2022 12:15:00 PM
Completed By: Cheyenne Cason 8/16/2022 12:39:56 PM
Reviewed By: JAC 8/16/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Client

Log In

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

of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: KPC 8.16.22

Special Handling (if applicable)

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

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 3.4, Good, Not Present, [], [], []

Attachment C

Photographic Log





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 141318

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 141318
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	11/17/2022