

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	NAPP2307233858
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party ETC Texas Pipeline, Ltd.	OGRID 371183
Contact Name Dean D. Ericson	Contact Telephone 432-238-2142
Contact email dean.ericson@energytransfer.com	Incident # (assigned by OCD)
Contact mailing address 600 N. Marienfeld St., Suite 700, Midland, TX 79701	

### Location of Release Source

Latitude 32.3824 Longitude -103.203046  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name M-4 Release	Site Type Pipeline
Date Release Discovered 03/09/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
	19	22S	R37E	Lea

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 3.5	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe) Pipeline Liquids	Volume/Weight Released (provide units) 60.60bbls	Volume/Weight Recovered (provide units) 0bbls

Cause of Release Unknown at this time

State of New Mexico  
 Oil Conservation Division

Incident ID	NAPP2307233858
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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  > 25bbbls released
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice given by Dean D. Ericson to Jennifer Nobui on 03/10/23 by phone	

### 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 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 NMSLO, Arc Survey must be completed prior to any ground disturbance. Arc Survey has not been completed at this time. Qualified Arc Monitor is not available to be on-site until 03/15/23 to begin initial Clean-up efforts	
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>Dean D. Ericson</u>	Title: <u>Sr. Environmental Specialist</u>
Signature: <u>Dean D. Ericson</u>	Date: <u>03/10/2023</u>
email: <u>dean.ericson@energytransfer.com</u>	Telephone: <u>432-238-2142</u>
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>03/13/2023</u>

Incident ID	NAPP2307233858
District RP	
Facility ID	
Application ID	

## Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Dean Ericson Title: Sr. Environmental Specialist  
 Signature: Dean D. Ericson Date: 07/14/2023  
 email: dean.ericson@energytransfer.com Telephone: 432-238-2142

**OCD Only**

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

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

Closure Approved by: Nelson Velez Date: 10/05/2023  
 Printed Name: Nelson Velez Title: Environmental Specialist - Adv

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

Our ref: 12608422

July 06, 2023

State of New Mexico Energy, Minerals and Resource Oil Conservation Division  
District I  
1625 N. French Dr.  
Hobbs, NM 88240

Re: **Site Closure Report**  
**ETC Texas Pipeline, Ltd.**  
**M-4 Release Site**  
**Incident ID: nAPP2307233858**  
**B and C-19-22S-37E, Lea County, New Mexico**

## 1. Introduction

GHD Services, Inc. (GHD), on behalf of ETC Texas Pipeline, Ltd. (ETCTP) submits this Site Closure Report to the State of New Mexico Energy, Minerals and Resource Oil Conservation Division (OCD) District I Office. This report provides documentation of remediation activities and analyses in the natural gas and pipeline fluids impacted area at the M-4 Release Site (Site). The Site is located in Unit Letter B and C Section 19 of Township 22 South and Range 37 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.3824° N Latitude and 103.203046° W Longitude. The surface owner of the land where the release occurred is New Mexico State Trust Land. Figure 1 depicts the Site location. The Site and other details are depicted on Figure 2.

## 2. Background and Regulatory Notification Information

The release is subject to the jurisdiction of the OCD District I Office in Hobbs, New Mexico. Notice was given to the OCD via Notification of Release (NOR) Submission, Action 196103. A C-141 Release Notification for this release was submitted to the OCD on March 10, 2023. The C-141 stated 3.5 Mcf of natural gas and 60.60 barrels (bbls) of other pipeline fluids were released from the pipeline. The OCD assigned the release with Incident Number nAPP2307233858. The cause of the release is unknown. Approximately 0 bbls of pipeline liquids were recovered. The Release Notification and Closure portions of Form C-141 are attached to the front of this report.

### 3. Site Characterization and Closure Criteria

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) (NMAC Table I Closure Criteria).

The Site Characterization and Remediation Work Plan dated March 29, 2023, was approved by the NMOCD on May 11, 2023. Details of the Site Characterization documentation and initial remedial activities can be found in the aforementioned report. The current Closure Criteria are listed below:

**General Site Characterization and Groundwater Information:**

Site Characterization	Average Groundwater Depth (ft)
No Receptors Found	Unknown, treated as less than fifty (50) feet

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

Regulatory Standard	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH (GRO+DRO+MRO) (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 feet)	600	--	100	50	10
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	600	--	100	50	10

### 4. Excavation, Confirmation Sampling, and Waste Management

ETCTP personnel mobilized to the Site in March and May 2023 to perform excavation activities on the affected area of the Site. Depths ranged from four (4) to ten (10) feet below ground surface (bgs). On May 12, 2023, GHD mobilized to the Site to collect five-point composite confirmation samples. Thirty-three (33) bottom hole (BH-1 through BH-33) and thirty-two (32) sidewall (SW-1 through SW-32) composite confirmation samples were collected. Composite confirmation samples represented areas no greater than 400 square feet, which was approved by NMOCD in correspondence dated May 1, 2023. The 400 square feet confirmation sample approval correspondence is included as Attachment A. Samples were placed in laboratory-provided containers, which were immediately labelled, sealed, and stored/transported in a cooler containing ice to a laboratory certified by the National Environmental Laboratory Program (NELAP) for analysis. All samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW846 Method 8021B, total petroleum hydrocarbons (TPH) by EPA SW46 Method 8015B Modified, and chloride by EPA Method 9056-CI-B.

Analytical results indicated seven (7) of the bottom hole samples exhibited TPH concentrations above Table I Closure Criteria (BH-1, BH-7, BH-11, BH-13, BH-15, BH-21, and BH-23). Ten (10) of the sidewall samples exhibited TPH or chloride concentrations above Table I Closure Criteria (SW-1, SW-2, SW-4, SW-7, SW-8, SW-15, SW-21, SW-22, SW-28, and SW-29).

Due to analytical concentrations above Table I Closure Criteria, ETCTP returned to the Site to recollect samples. The areas around BH-1, BH-7, BH-11, BH-13, BH-15, BH-21, and BH-23 were resampled (BH-1A, BH-7A, BH-11A, BH-13A, BH-15A, BH-21A, and BH-23A). The sidewalls where SW-1, SW-2, SW-4, SW-7, SW-8, SW-15, SW-21, SW-22, SW-28, and SW-29 were collected were resampled (SW-1A, SW-2A, SW-4A, SW-7A, SW-8A, SW-15A, SW-21A, SW-22A, SW-28A, and SW-29A). Composite confirmation samples represented areas no greater than 400 square feet. Samples were placed in laboratory-provided containers, which were immediately labelled, sealed, and stored/transported in a cooler containing ice to a laboratory certified by the National Environmental Laboratory Program (NELAP) for analysis. All samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW46 Method 8015B Modified, and chloride by EPA Method 9056-CI-B.

Analytical results indicated none of the samples exhibited benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria. Analytical results are included in Table 1 and in the laboratory analytical reports included as Attachment B. Sample locations are shown on Figure 2.

Waste management activities were performed in coordination with ETCTP directives. ETCTP 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 (fJEG1635837006), Sundance Services West, Inc. facility located at 196 Wallach Ln, Eunice, NM, 88231. Approximately 2,520 yards of impacted soils were removed from the remedial excavation and disposed of. The approved C-138 and waste manifests are available upon request but are not attached due to the size of the file. A summary of soil disposal is included in Table 2. A photographic log is included as Attachment C. Sampling notifications are included in Attachment A.

## 5. nAPP2307233858 Closure Request

The excavation was backfilled with non-impacted virgin soil transported to the Site from a locally sourced pit. Approximately sixteen (16) pounds of native grass seed was applied to the excavation area on June 19, 2023. Site Characterization and remediation activities for Incident nAPP2307233858 have been performed in accordance with applicable NMOCD guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of ETCTP, respectfully requests closure of nAPP2307233858.

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

Sincerely,

GHD



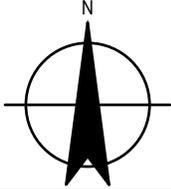
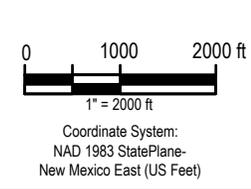
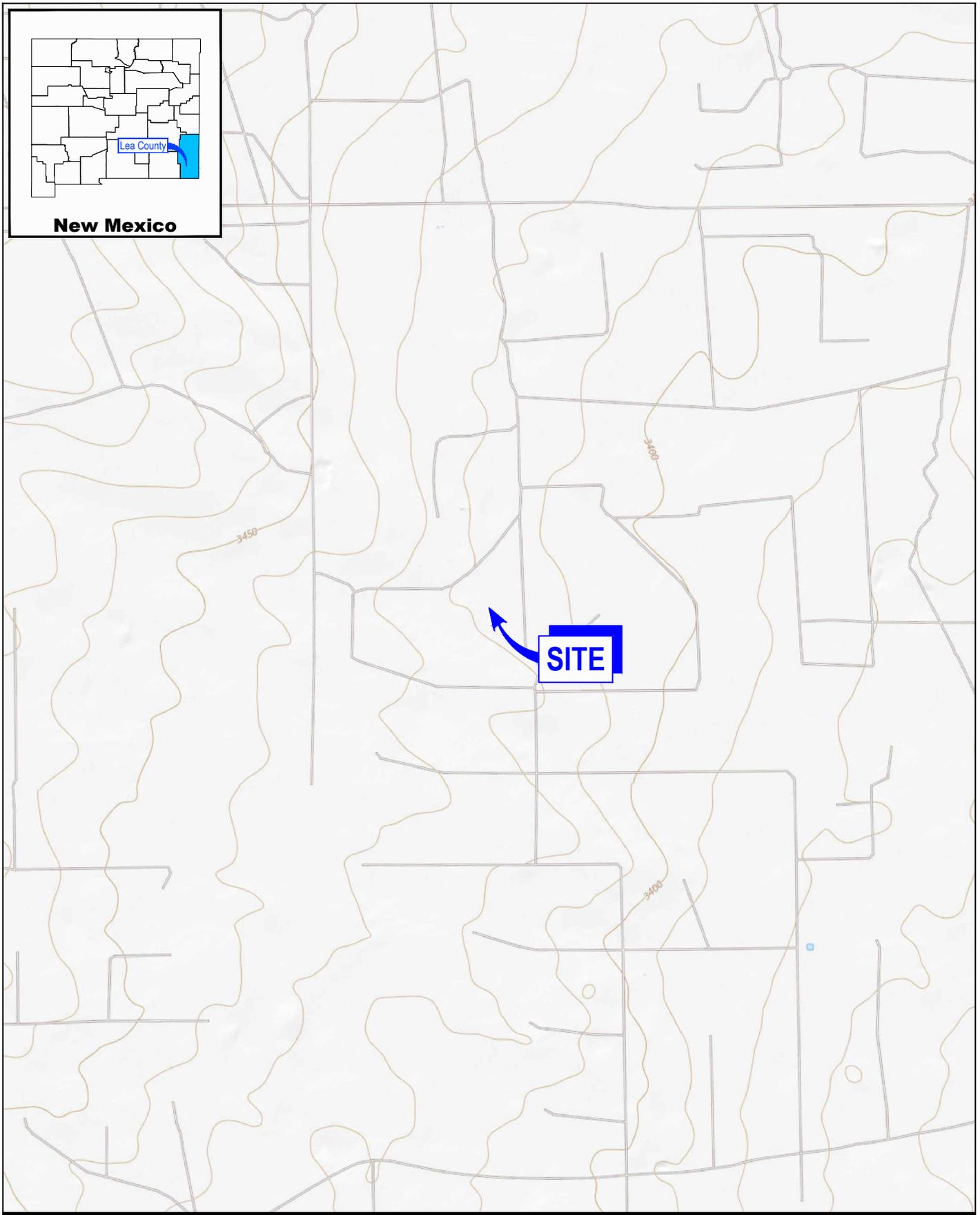
Nate Reece  
Environmental Scientist

J.T. Murrey  
Senior Project Director

Encl. Figure 1 – Site Location Map  
Figure 2 – Confirmation Sample Locations Map  
Table 1 – Summary of Soil Analytical Data  
Table 2 – Daily Soil Disposal Summary  
Attachment A – NMOCD Correspondence  
Attachment B – Laboratory Analytical Reports and Chain-of-Custody Documentation  
Attachment C – Photographic Log

cc: Dean Ericson, ETCTP

# Figures

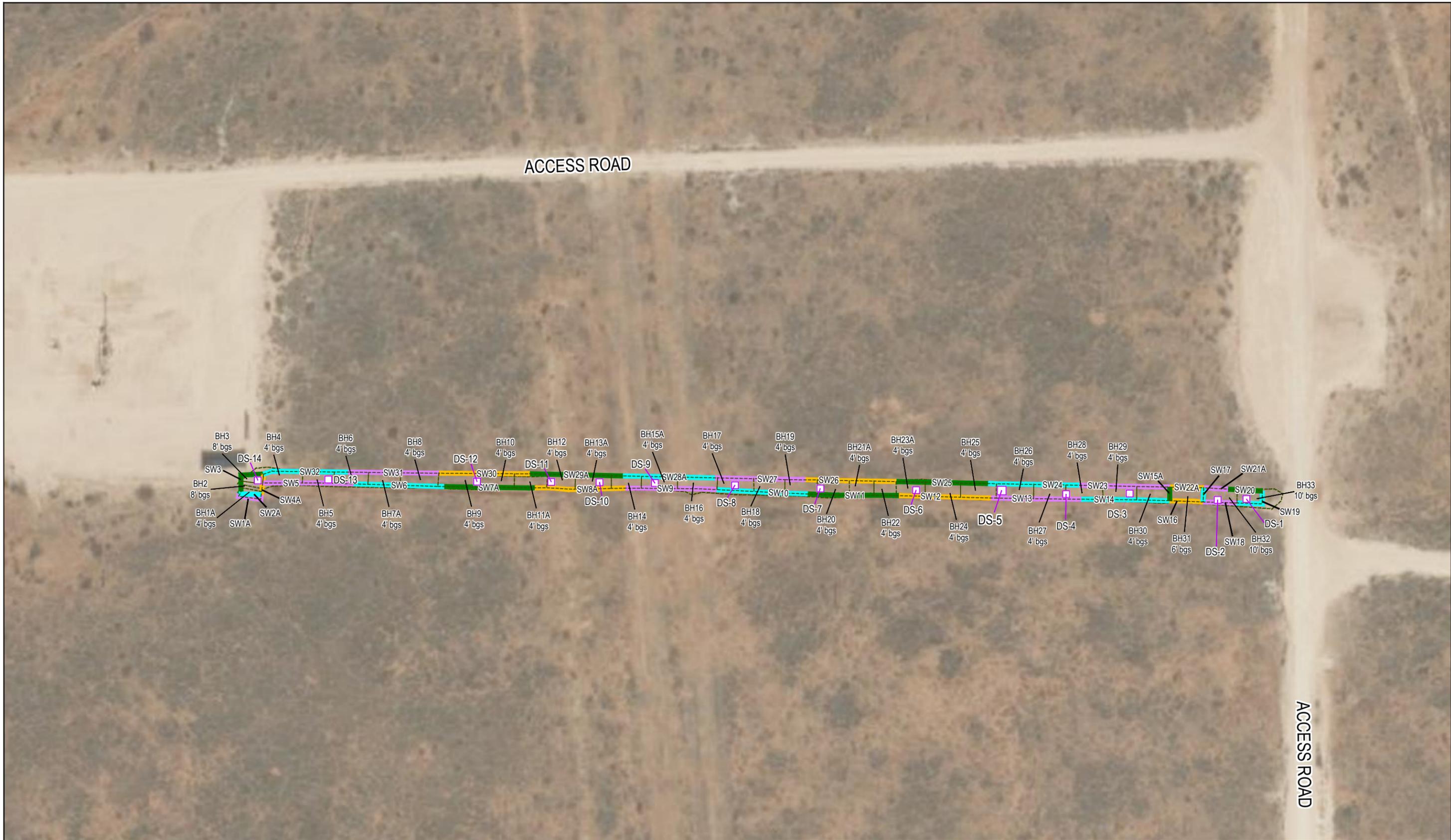


ETC TEXAS PIPELINE, Ltd.  
LEA COUNTY, NEW MEXICO  
M-4 RELEASE

Project No. 12608422  
Date March 2023

**SITE LOCATION MAP**

**FIGURE 1**

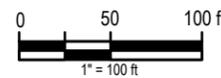


**LEGEND**

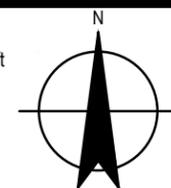
-  EXCAVATED AREA
-  **SW2** INDICATES SIDE WALL COMPOSITE SAMPLE
-  **SW4** INDICATES SIDE WALL COMPOSITE SAMPLE
-  **SW5** INDICATES SIDE WALL COMPOSITE SAMPLE
-  **SW3** INDICATES SIDE WALL COMPOSITE SAMPLE

**NOTES:**

SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.



Coordinate System:  
NAD 1983 StatePlane-  
New Mexico East (US Feet)



ETC TEXAS PIPELINE, LTD.  
LEA COUNTY, NEW MEXICO  
M-4 RELEASE

**CONFIRMATION SAMPLE  
LOCATIONS MAP**

Project No. 12608422  
Date June 2023

**FIGURE 2**

# Tables

**Table 1**  
**Summary of Soil Analytical Data**  
**M-4 Release**  
**nAPP2307233858**  
**Lea County, New Mexico**

SAMPLE ID	SAMPLE DATE	DEPTH (FEET BGS)	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	BTEX	TPH				CHLORIDE (Lab)
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	TOTAL GRO/DRO/MRO	(mg/kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10	---	---	---	50	---	---	---	100	600
<b>Bottom Hole Confirmation Samples</b>												
BH-1	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	117	17.3	134.3	32.0
BH-1A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-2	5/12/23	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
BH-3	5/12/23	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.9	<10.0	17.9	<16.0
BH-4	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.5	<10.0	22.5	32.0
BH-5	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	45.5	<10.0	45.5	16.0
BH-6	5/12/23	4	<0.050	0.062	0.072	0.191	0.326	<10.0	18.7	<10.0	18.7	48.0
BH-7	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	186	38.4	224.4	64.0
BH-7A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.9	<10.0	15.9	16.0
BH-8	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.4	<10.0	18.4	96.0
BH-9	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.0	<10.0	12.0	64.0
BH-10	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.1	<10.0	14.1	32.0
BH-11	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	385	72.7	457.7	32.0
BH-11A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
BH-12	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
BH-13	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	134	31.6	165.6	32.0
BH-13A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
BH-14	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-15	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	148	28.8	176.8	32.0
BH-15A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
BH-16	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	512
BH-17	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.8	<10.0	12.8	48.0
BH-18	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
BH-19	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
BH-20	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	41.8	<10.0	41.8	16.0
BH-21	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	91.3	11.9	103.2	48.0
BH-21A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-22	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-23	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	346	57.1	403.1	64.0
BH-23A	6/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-24	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-25	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0

**Table 1**  
**Summary of Soil Analytical Data**  
**M-4 Release**  
**nAPP2307233858**  
**Lea County, New Mexico**

SAMPLE ID	SAMPLE DATE	DEPTH (FEET BGS)	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	BTEX	TPH				CHLORIDE (Lab)
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	TOTAL GRO/DRO/MRO	(mg/kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10	---	---	---	50	---	---	---	100	600
BH-26	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-27	5/12/23	4	<0.050	<0.050	0.065	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
BH-28	5/12/23	4	<0.050	<0.050	0.107	0.269	0.376	<10.0	<10.0	<10.0	<10.0	32.0
BH-29	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
BH-30	5/12/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BH-31	5/12/23	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.1	<10.0	11.1	64.0
BH-32	5/12/23	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
BH-33	5/12/23	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
<b>Sidewall Confirmation Samples</b>												
<del>SW 1</del>	<del>5/12/23</del>	<del>0-4</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>136</del>	<del>38.2</del>	<del>166.2</del>	<del>64.0</del>
SW-1A	6/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
<del>SW 2</del>	<del>5/12/23</del>	<del>4-8</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>118</del>	<del>24.2</del>	<del>142.2</del>	<del>48.0</del>
SW-2A	6/12/23	4-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW-3	5/12/23	0-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
<del>SW 4</del>	<del>5/12/23</del>	<del>0-8</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>286</del>	<del>46.6</del>	<del>332.6</del>	<del>64.0</del>
SW-4A	6/12/23	0-8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.1	10.5	41.6	32.0
SW-5	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	34.1	<10.0	34.1	<16.0
SW-6	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.3	<10.0	13.3	16.0
<del>SW 7</del>	<del>5/12/23</del>	<del>0-4</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>440</del>	<del>115</del>	<del>555</del>	<del>32.0</del>
SW-7A	6/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.4	<10.0	10.4	48.0
<del>SW 8</del>	<del>5/12/23</del>	<del>0-4</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>126</del>	<del>11.9</del>	<del>137.9</del>	<del>32.0</del>
SW-8A	6/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW-9	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	36.1	<10.0	36.1	<16.0
SW-10	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW-11	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	41.8	15.3	57.1	32.0
SW-12	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW-13	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW-14	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
<del>SW 15</del>	<del>5/12/23</del>	<del>4-6</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>565</del>	<del>181</del>	<del>746</del>	<del>128</del>
SW-15A	6/12/23	4-6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW-16	5/12/23	0-6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.1	<10.0	10.1	400
SW-17	5/12/23	6-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
SW-18	5/12/23	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	512

**Table 1**  
**Summary of Soil Analytical Data**  
**M-4 Release**  
**nAPP2307233858**  
**Lea County, New Mexico**

SAMPLE ID	SAMPLE DATE	DEPTH (FEET BGS)	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	BTEX	TPH				CHLORIDE (Lab)
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	TOTAL GRO/DRO/MRO	(mg/kg)
			Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10	---	---	---	50	---	---	---	100	600
SW-19	5/12/23	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>11.6</b>	<10.0	<b>11.6</b>	<b>16.0</b>
SW-20	5/12/23	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>48.5</b>	<b>14.8</b>	<b>63.3</b>	<b>80.0</b>
<del>SW-21</del>	<del>5/12/23</del>	<del>0-10</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del><b>79.3</b></del>	<del><b>98.4</b></del>	<del><b>801.4</b></del>	<del><b>352</b></del>
SW-21A	6/12/23	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>48.0</b>
<del>SW-22</del>	<del>5/12/23</del>	<del>0-6</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del><b>47.7</b></del>	<del>&lt;10.0</del>	<del><b>47.7</b></del>	<del><b>1290</b></del>
SW-22A	6/12/23	0-6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>32.3</b>	<10.0	<b>32.3</b>	<b>48.0</b>
SW-23	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW-24	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW-25	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>10.7</b>	<10.0	<b>10.7</b>	<16.0
SW-26	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>17.0</b>	<b>10.6</b>	<b>27.6</b>	<16.0
SW-27	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>15.1</b>	<10.0	<b>15.1</b>	<16.0
<del>SW-28</del>	<del>5/12/23</del>	<del>0-4</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del><b>161</b></del>	<del><b>29.2</b></del>	<del><b>190.2</b></del>	<del><b>192</b></del>
SW-28A	6/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>32.9</b>	<10.0	<b>32.9</b>	<b>32.0</b>
<del>SW-29</del>	<del>5/12/23</del>	<del>0-4</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del><b>216</b></del>	<del><b>41.1</b></del>	<del><b>257.1</b></del>	<del><b>32.0</b></del>
SW-29A	6/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<b>48.0</b>
SW-30	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>93.3</b>	<10.0	<b>93.3</b>	<b>32.0</b>
SW-31	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW-32	5/12/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>13.8</b>	<10.0	<10.0	<16.0

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 NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

~~B-BH-2~~ Sample Point Excavated

**Table 2**  
**Daily Disposal Summary**  
**M-4 Release**  
**nAPP2307233858**  
**Lea County, New Mexico**

<b>Date of Disposal</b>	<b>Total Yards Disposed</b>
3/14/2023	60
5/1/2023	60
5/2/2023	240
5/3/2023	340
5/4/2023	120
5/5/2023	360
5/8/2023	300
5/9/2023	360
5/10/2023	360
5/11/2023	100
5/12/2023	220
<b>Project Total</b>	<b>2,520</b>

# **Attachment A**

## **NMOCD Correspondence**

**Nate Reece**

---

**From:** J.T. Murrey  
**Sent:** Monday, May 1, 2023 4:06 PM  
**To:** Ericson, Dean; Nate Reece  
**Subject:** FW: [EXTERNAL] nAPP2307233858 - Proposed Work Plan Variance Request

**CompleteRepository:** 12608422  
**Description:** ET - M-4 Release  
**JobNo:** 12608422  
**OperatingCentre:** 562  
**RepoEmail:** 12608422@ghd.com  
**RepoType:** Project

Gentlemen,

Requested 500 but got 400 which is still great.

Thanks

**J.T. Murrey**

**GHD**

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2135 S. Loop 250 West, Midland, TX 79703 USA  
M 361 252 6136 | E [jt.murrey@ghd.com](mailto:jt.murrey@ghd.com)

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Canada: 800 679 9082

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---

**From:** Nobui, Jennifer, EMNRD <[Jennifer.Nobui@emnrd.nm.gov](mailto:Jennifer.Nobui@emnrd.nm.gov)>  
**Sent:** Monday, May 1, 2023 3:03 PM  
**To:** J.T. Murrey <[JT.Murrey@ghd.com](mailto:JT.Murrey@ghd.com)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** RE: [EXTERNAL] nAPP2307233858 - Proposed Work Plan Variance Request

Hello J.T.

Upon review of your request, OCD approves your request with a slight modification. As depth to groundwater was not established, composite confirmation samples can be collected from the bottom and sidewalls of the excavation from areas representing no more than four hundred (400) square feet.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Please let me know if you have any questions.

Thanks,  
Jennifer Nobui

---

**From:** J.T. Murrey <[JT.Murrey@ghd.com](mailto:JT.Murrey@ghd.com)>  
**Sent:** Monday, May 1, 2023 1:41 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Nobui, Jennifer, EMNRD <[Jennifer.Nobui@emnrd.nm.gov](mailto:Jennifer.Nobui@emnrd.nm.gov)>; Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>; Nate Reece <[Nate.Reece@ghd.com](mailto:Nate.Reece@ghd.com)>; Ericson, Dean <[Dean.Ericson@energyTransfer.com](mailto:Dean.Ericson@energyTransfer.com)>  
**Subject:** [EXTERNAL] nAPP2307233858 - Proposed Work Plan Variance Request

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ETC Texas Pipeline submitted a Site Characterization and Soil Remediation Work Plan for the release. Contractors are currently working to initiate the remediation of the release but it appears the affected area is larger than originally anticipated. As a result, we are requesting a variance to the sampling grid that was originally proposed (every 200 square feet) to one sample for every 500 square feet.

Please let us know if this variance is approved.

Thanks!

**J.T. Murrey**

**GHD**

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2135 S. Loop 250 West, Midland, TX 79703 USA  
**M** 361 252 6136 | **E** [jt.murrey@ghd.com](mailto:jt.murrey@ghd.com)

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**Nate Reece**

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Wednesday, May 10, 2023 10:35 AM  
**To:** Nate Reece  
**Cc:** Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD  
**Subject:** RE: [EXTERNAL] Sampling Notification - M-4

Nate,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

**Jocelyn Harimon** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
1220 South St. Francis Drive | Santa Fe, NM 87505  
(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



---

**From:** Nate Reece <Nate.Reece@ghd.com>  
**Sent:** Tuesday, May 9, 2023 12:32 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** J.T. Murrey <JT.Murrey@ghd.com>; Ericson, Dean <Dean.Ericson@energyTransfer.com>; Daniel Sparks <Daniel.Sparks@ghd.com>  
**Subject:** [EXTERNAL] Sampling Notification - M-4

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To Whom it May Concern,

GHD on behalf of ETC Texas Pipeline, respectfully submits notification of sampling to be conducted at the below locations:.

M-4 Release  
19-22S-37E  
Lea County, NM  
nAPP2307233858

Sampling will begin at 7:00 a.m. on Thursday, May 11, 2023 and be continuous through May 26, 2023.

Thank You,

**Nate Reece**  
Environmental Scientist

**GHD**

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11451 Katy Fwy #400, Houston, TX 77079 United States

M +1 281 386 7158 | E [nate.reece@ghd.com](mailto:nate.reece@ghd.com)

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# **Attachment B**

## **Laboratory Analytical Reports and Chain-of-Custody Documentation**



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 18, 2023

NATE REECE

GHD SERVICES, INC.

6121 INDIAN SCHOOL RD, NE STE. 200

ALBUQUERQUE, NM 87110

RE: M-4 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/15/23 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
---	--	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1	H232416-01	Soil	12-May-23 00:00	15-May-23 14:25
BH-2	H232416-02	Soil	12-May-23 00:00	15-May-23 14:25
BH-3	H232416-03	Soil	12-May-23 00:00	15-May-23 14:25
BH-4	H232416-04	Soil	12-May-23 00:00	15-May-23 14:25
BH-5	H232416-05	Soil	12-May-23 00:00	15-May-23 14:25
BH-6	H232416-06	Soil	12-May-23 00:00	15-May-23 14:25
BH-7	H232416-07	Soil	12-May-23 00:00	15-May-23 14:25
BH-8	H232416-08	Soil	12-May-23 00:00	15-May-23 14:25
BH-9	H232416-09	Soil	12-May-23 00:00	15-May-23 14:25
BH-10	H232416-10	Soil	12-May-23 00:00	15-May-23 14:25
BH-11	H232416-11	Soil	12-May-23 00:00	15-May-23 14:25
BH-12	H232416-12	Soil	12-May-23 00:00	15-May-23 14:25
BH-13	H232416-13	Soil	12-May-23 00:00	15-May-23 14:25
BH-14	H232416-14	Soil	12-May-23 00:00	15-May-23 14:25
BH-15	H232416-15	Soil	12-May-23 00:00	15-May-23 14:25
BH-16	H232416-16	Soil	12-May-23 00:00	15-May-23 14:25
BH-17	H232416-17	Soil	12-May-23 00:00	15-May-23 14:25
BH-18	H232416-18	Soil	12-May-23 00:00	15-May-23 14:25
BH-19	H232416-19	Soil	12-May-23 00:00	15-May-23 14:25
BH-20	H232416-20	Soil	12-May-23 00:00	15-May-23 14:25
BH-21	H232416-21	Soil	12-May-23 00:00	15-May-23 14:25
BH-22	H232416-22	Soil	12-May-23 00:00	15-May-23 14:25
BH-23	H232416-23	Soil	12-May-23 00:00	15-May-23 14:25
BH-24	H232416-24	Soil	12-May-23 00:00	15-May-23 14:25
BH-25	H232416-25	Soil	12-May-23 00:00	15-May-23 14:25
BH-26	H232416-26	Soil	12-May-23 00:00	15-May-23 14:25
BH-27	H232416-27	Soil	12-May-23 00:00	15-May-23 14:25

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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BH-28	H232416-28	Soil	12-May-23 00:00	15-May-23 14:25
BH-29	H232416-29	Soil	12-May-23 00:00	15-May-23 14:25
BH-30	H232416-30	Soil	12-May-23 00:00	15-May-23 14:25
BH-31	H232416-31	Soil	12-May-23 00:00	15-May-23 14:25
BH-32	H232416-32	Soil	12-May-23 00:00	15-May-23 14:25
BH-33	H232416-33	Soil	12-May-23 00:00	15-May-23 14:25
SW-1	H232416-34	Soil	12-May-23 00:00	15-May-23 14:25
SW-2	H232416-35	Soil	12-May-23 00:00	15-May-23 14:25
SW-3	H232416-36	Soil	12-May-23 00:00	15-May-23 14:25
SW-4	H232416-37	Soil	12-May-23 00:00	15-May-23 14:25
SW-5	H232416-38	Soil	12-May-23 00:00	15-May-23 14:25
SW-6	H232416-39	Soil	12-May-23 00:00	15-May-23 14:25
SW-7	H232416-40	Soil	12-May-23 00:00	15-May-23 14:25
SW-8	H232416-41	Soil	12-May-23 00:00	15-May-23 14:25
SW-9	H232416-42	Soil	12-May-23 00:00	15-May-23 14:25
SW-10	H232416-43	Soil	12-May-23 00:00	15-May-23 14:25
SW-11	H232416-44	Soil	12-May-23 00:00	15-May-23 14:25
SW-12	H232416-45	Soil	12-May-23 00:00	15-May-23 14:25
SW-13	H232416-46	Soil	12-May-23 00:00	15-May-23 14:25
SW-14	H232416-47	Soil	12-May-23 00:00	15-May-23 14:25
SW-15	H232416-48	Soil	12-May-23 00:00	15-May-23 14:25
SW-16	H232416-49	Soil	12-May-23 00:00	15-May-23 14:25
SW-17	H232416-50	Soil	12-May-23 00:00	15-May-23 14:25
SW-18	H232416-51	Soil	12-May-23 00:00	15-May-23 14:25
SW-19	H232416-52	Soil	12-May-23 00:00	15-May-23 14:25
SW-20	H232416-53	Soil	12-May-23 00:00	15-May-23 14:25
SW-21	H232416-54	Soil	12-May-23 00:00	15-May-23 14:25
SW-22	H232416-55	Soil	12-May-23 00:00	15-May-23 14:25
SW-23	H232416-56	Soil	12-May-23 00:00	15-May-23 14:25
SW-24	H232416-57	Soil	12-May-23 00:00	15-May-23 14:25

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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SW-25	H232416-58	Soil	12-May-23 00:00	15-May-23 14:25
SW-26	H232416-59	Soil	12-May-23 00:00	15-May-23 14:25
SW-27	H232416-60	Soil	12-May-23 00:00	15-May-23 14:25
SW-28	H232416-61	Soil	12-May-23 00:00	15-May-23 14:25
SW-29	H232416-62	Soil	12-May-23 00:00	15-May-23 14:25
SW-30	H232416-63	Soil	12-May-23 00:00	15-May-23 14:25
SW-31	H232416-64	Soil	12-May-23 00:00	15-May-23 14:25
SW-32	H232416-65	Soil	12-May-23 00:00	15-May-23 14:25

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-1  
H232416-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<b>117</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<b>17.3</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane			103 %	48.2-134		3051539	MS	16-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			124 %	49.1-148		3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-2  
H232416-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	U
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 3051606 JH/ 16-May-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 110 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 139 % 49.1-148 3051539 MS 16-May-23 8015B

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-3  
H232416-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	U
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134 3051606 JH/ 16-May-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	17.9		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 114 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 142 % 49.1-148 3051539 MS 16-May-23 8015B

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-4  
H232416-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>22.5</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			98.5 %	48.2-134		3051539	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			125 %	49.1-148		3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-5  
H232416-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %		71.5-134	3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>45.5</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			109 %		48.2-134	3051539	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			136 %		49.1-148	3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-6  
H232416-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<b>0.062</b>		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	
Ethylbenzene*	<b>0.072</b>		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	
Total Xylenes*	<b>0.191</b>		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	
Total BTEX	<b>0.326</b>		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<b>18.7</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane			104 %	48.2-134		3051539	MS	16-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			118 %	49.1-148		3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-7  
H232416-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>186</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>38.4</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			118 %	48.2-134		3051539	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			145 %	49.1-148		3051539	MS	16-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-8  
H232416-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %		71.5-134	3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>18.4</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			120 %		48.2-134	3051539	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			140 %		49.1-148	3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC.  
6121 INDIAN SCHOOL RD, NE STE. 200  
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE  
Project Number: 12608422  
Project Manager: NATE REECE  
Fax To:

Reported:  
18-May-23 13:16

**BH-9****H232416-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 3051606 JH/ 16-May-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>12.0</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 96.1 % 48.2-134 3051539 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 112 % 49.1-148 3051539 MS 16-May-23 8015B

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-10  
H232416-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051630	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %		71.5-134	3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>14.1</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			93.0 %		48.2-134	3051539	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			112 %		49.1-148	3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-11  
H232416-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %		71.5-134	3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>385</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>72.7</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			115 %		48.2-134	3051539	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			125 %		49.1-148	3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-12  
H232416-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>288</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			112 %		48.2-134	3051539	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			128 %		49.1-148	3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-13  
H232416-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<b>0.057</b>		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	
Ethylbenzene*	<b>0.088</b>		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	
Total Xylenes*	<b>0.208</b>		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	
Total BTEX	<b>0.352</b>		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<b>134</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<b>31.6</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane			110 %	48.2-134		3051539	MS	16-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			129 %	49.1-148		3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-14  
H232416-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			119 %		48.2-134	3051539	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			134 %		49.1-148	3051539	MS	16-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-15  
H232416-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>148</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>28.8</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane			113 %	48.2-134		3051539	MS	16-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			143 %	49.1-148		3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-16  
H232416-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>512</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			128 %		48.2-134	3051539	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			162 %		49.1-148	3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-17  
H232416-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051606	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051606	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %		71.5-134	3051606	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>12.8</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			79.7 %		48.2-134	3051539	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			72.2 %		49.1-148	3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-18  
H232416-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			123 %		48.2-134	3051539	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			156 %		49.1-148	3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-19  
H232416-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			119 %	48.2-134		3051539	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			150 %	49.1-148		3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-20  
H232416-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>41.8</b>		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051539	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			121 %		48.2-134	3051539	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			147 %		49.1-148	3051539	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-21  
H232416-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>91.3</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>11.9</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.3 %		48.2-134	3051540	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-22  
H232416-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			95.7 %		48.2-134	3051540	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.7 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-23  
H232416-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>346</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>57.1</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane			118 %	48.2-134		3051540	MS	16-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			130 %	49.1-148		3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-24  
H232416-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			93.1 %		48.2-134	3051540	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.7 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-25  
H232416-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			93.5 %		48.2-134	3051540	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.6 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-26  
H232416-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID)			105 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane			96.9 %		48.2-134	3051540	MS	16-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			99.2 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-27  
H232416-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
<b>Ethylbenzene*</b>	<b>0.065</b>		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			92.3 %		48.2-134	3051540	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.8 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-28  
H232416-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
<b>Ethylbenzene*</b>	<b>0.107</b>		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	
<b>Total Xylenes*</b>	<b>0.269</b>		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	
<b>Total BTEX</b>	<b>0.376</b>		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			86.2 %		48.2-134	3051540	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.1 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-29  
H232416-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	3051641	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			103 %		48.2-134	3051540	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %		49.1-148	3051540	MS	16-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-30  
H232416-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3051641	AC	16-May-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane			91.6 %		48.2-134	3051540	MS	16-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			89.7 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-31  
H232416-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>11.1</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			117 %		48.2-134	3051540	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			127 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-32  
H232416-32 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			115 %		48.2-134	3051540	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			120 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**BH-33  
H232416-33 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	U
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134 3051607 JH/ 16-May-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 101 % 48.2-134 3051540 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 103 % 49.1-148 3051540 MS 16-May-23 8015B

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-1  
H232416-34 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>136</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>30.2</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane			95.8 %		48.2-134	3051540	MS	16-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			105 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-2  
H232416-35 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>118</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>24.2</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.5 %		48.2-134	3051540	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			91.8 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-3  
H232416-36 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			92.8 %		48.2-134	3051540	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.8 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-4  
H232416-37 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051607	JH/	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051607	JH/	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		71.5-134	3051607	JH/	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>286</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>46.6</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			106 %		48.2-134	3051540	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			116 %		49.1-148	3051540	MS	16-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-5  
H232416-38 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	U
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	QM-07, QR-03, U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	QM-07, QR-03, U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	QM-07, QR-03, U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	QM-07, QR-03, U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U
Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3051608	JH	16-May-23	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
DRO >C10-C28*	<b>34.1</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
Surrogate: 1-Chlorooctane			120 %	48.2-134		3051540	MS	16-May-23	8015B	
Surrogate: 1-Chlorooctadecane			129 %	49.1-148		3051540	MS	16-May-23	8015B	

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-6  
H232416-39 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>13.3</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			113 %		48.2-134	3051540	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			113 %		49.1-148	3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-7  
H232416-40 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>440</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>115</b>		10.0	mg/kg	1	3051540	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane			96.8 %	48.2-134		3051540	MS	16-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			120 %	49.1-148		3051540	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-8  
H232416-41 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %		71.5-134	3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>126</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>11.9</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			128 %		48.2-134	3051541	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			138 %		49.1-148	3051541	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-9  
H232416-42 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	U
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3051608 JH 16-May-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	36.1		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 130 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 143 % 49.1-148 3051541 MS 16-May-23 8015B

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-10  
H232416-43 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %		71.5-134	3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			140 %		48.2-134	3051541	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			148 %		49.1-148	3051541	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-11  
H232416-44 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>41.8</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>15.3</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			114 %	48.2-134		3051541	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			113 %	49.1-148		3051541	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-12  
H232416-45 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %		71.5-134	3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			120 %		48.2-134	3051541	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			114 %		49.1-148	3051541	MS	16-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-13  
H232416-46 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			128 %	48.2-134		3051541	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			136 %	49.1-148		3051541	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-14  
H232416-47 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			103 %	48.2-134		3051541	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %	49.1-148		3051541	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-15  
H232416-48 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>565</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>181</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			125 %		48.2-134	3051541	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			158 %		49.1-148	3051541	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-16  
H232416-49 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>400</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %		71.5-134	3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>10.1</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			117 %		48.2-134	3051541	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			127 %		49.1-148	3051541	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-17  
H232416-50 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	3051631	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		71.5-134	3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			118 %		48.2-134	3051541	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			128 %		49.1-148	3051541	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-18  
H232416-51 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>512</b>		16.0	mg/kg	4	3051642	AC	16-May-23	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %		71.5-134	3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			141 %		48.2-134	3051541	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			155 %		49.1-148	3051541	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-19  
H232416-52 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %	71.5-134		3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>11.6</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			146 %	48.2-134		3051541	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			159 %	49.1-148		3051541	MS	16-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-20  
H232416-53 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>48.5</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>14.8</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			128 %	48.2-134		3051541	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			137 %	49.1-148		3051541	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-21  
H232416-54 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>352</b>		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>703</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>98.4</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane			112 %		48.2-134	3051541	MS	16-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			138 %		49.1-148	3051541	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-22  
H232416-55 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>1200</b>		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %		71.5-134	3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>47.7</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			132 %		48.2-134	3051541	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			141 %		49.1-148	3051541	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-23**

**H232416-56 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	3051608	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane			107 %		48.2-134	3051541	MS	16-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			103 %		49.1-148	3051541	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-24  
H232416-57 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051608	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051608	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3051608 JH 16-May-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 117 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 120 % 49.1-148 3051541 MS 16-May-23 8015B

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-25  
H232416-58 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	QM-07, U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	QM-07, U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	QM-07, U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3051609 JH 16-May-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>10.7</b>		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 115 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 104 % 49.1-148 3051541 MS 16-May-23 8015B

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-26  
H232416-59 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 3051609 JH 16-May-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	17.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	10.6		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane 122 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 124 % 49.1-148 3051541 MS 16-May-23 8015B

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-27  
H232416-60 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 3051609 JH 16-May-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U
DRO >C10-C28*	15.1		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051541	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 130 % 48.2-134 3051541 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 138 % 49.1-148 3051541 MS 16-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-28  
H232416-61 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3051609	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>161</b>		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>29.2</b>		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane			97.7 %	48.2-134		3051544	MS	16-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			108 %	49.1-148		3051544	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-29  
H232416-62 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3051609	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>216</b>		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>41.1</b>		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	

Surrogate: 1-Chlorooctane			91.4 %	48.2-134		3051544	MS	16-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	49.1-148		3051544	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-30  
H232416-63 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %		71.5-134	3051609	JH	16-May-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U
<b>DRO &gt;C10-C28*</b>	<b>93.3</b>		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U

<i>Surrogate: 1-Chlorooctane</i>			81.5 %		48.2-134	3051544	MS	16-May-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.6 %		49.1-148	3051544	MS	16-May-23	8015B	
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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-31  
H232416-64 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134 3051609 JH 16-May-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 90.0 % 48.2-134 3051544 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148 3051544 MS 16-May-23 8015B

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**SW-32  
H232416-65 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	3051642	AC	16-May-23	4500-Cl-B	U
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Toluene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Ethylbenzene*	<0.050		0.050	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total Xylenes*	<0.150		0.150	mg/kg	50	3051609	JH	16-May-23	8021B	U
Total BTEX	<0.300		0.300	mg/kg	50	3051609	JH	16-May-23	8021B	U

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 3051609 JH 16-May-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U
DRO >C10-C28*	<b>13.8</b>		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3051544	MS	16-May-23	8015B	U

Surrogate: 1-Chlorooctane 80.6 % 48.2-134 3051544 MS 16-May-23 8015B

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148 3051544 MS 16-May-23 8015B

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**Inorganic Compounds - Quality Control**  
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3051630 - 1:4 DI Water</b>										
<b>Blank (3051630-BLK1)</b> Prepared & Analyzed: 16-May-23										
Chloride	ND	16.0	mg/kg							U
<b>LCS (3051630-BS1)</b> Prepared & Analyzed: 16-May-23										
Chloride	416	16.0	mg/kg	400		104	80-120			
<b>LCS Dup (3051630-BSD1)</b> Prepared & Analyzed: 16-May-23										
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
<b>Batch 3051631 - 1:4 DI Water</b>										
<b>Blank (3051631-BLK1)</b> Prepared & Analyzed: 16-May-23										
Chloride	ND	16.0	mg/kg							U
<b>LCS (3051631-BS1)</b> Prepared & Analyzed: 16-May-23										
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (3051631-BSD1)</b> Prepared & Analyzed: 16-May-23										
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	
<b>Batch 3051641 - 1:4 DI Water</b>										
<b>Blank (3051641-BLK1)</b> Prepared & Analyzed: 16-May-23										
Chloride	ND	16.0	mg/kg							U
<b>LCS (3051641-BS1)</b> Prepared & Analyzed: 16-May-23										
Chloride	416	16.0	mg/kg	400		104	80-120			

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**Inorganic Compounds - Quality Control**  
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3051641 - 1:4 DI Water**

<b>LCS Dup (3051641-BSD1)</b>				Prepared & Analyzed: 16-May-23						
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

**Batch 3051642 - 1:4 DI Water**

<b>Blank (3051642-BLK1)</b>				Prepared & Analyzed: 16-May-23						
Chloride	ND	16.0	mg/kg							U

<b>LCS (3051642-BS1)</b>				Prepared & Analyzed: 16-May-23						
Chloride	416	16.0	mg/kg	400		104	80-120			

<b>LCS Dup (3051642-BSD1)</b>				Prepared & Analyzed: 16-May-23						
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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**Analytical Results For:**

GHD SERVICES, INC.  
6121 INDIAN SCHOOL RD, NE STE. 200  
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE  
Project Number: 12608422  
Project Manager: NATE REECE  
Fax To:

Reported:  
18-May-23 13:16

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3051606 - Volatiles****Blank (3051606-BLK1)**

Prepared &amp; Analyzed: 16-May-23

Benzene	ND	0.050	mg/kg							U
Toluene	ND	0.050	mg/kg							U
Ethylbenzene	ND	0.050	mg/kg							U
Total Xylenes	ND	0.150	mg/kg							U
Total BTEX	ND	0.300	mg/kg							U
Surrogate: 4-Bromofluorobenzene (PID)	0.0539		mg/kg	0.0500		108	71.5-134			

**LCS (3051606-BS1)**

Prepared &amp; Analyzed: 16-May-23

Benzene	2.08	0.050	mg/kg	2.00		104	81.4-118			
Toluene	2.08	0.050	mg/kg	2.00		104	88.7-121			
Ethylbenzene	2.18	0.050	mg/kg	2.00		109	86.1-120			
m,p-Xylene	4.34	0.100	mg/kg	4.00		109	88.2-124			
o-Xylene	2.15	0.050	mg/kg	2.00		108	84.9-118			
Total Xylenes	6.50	0.150	mg/kg	6.00		108	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.7	71.5-134			U

**LCS Dup (3051606-BSD1)**

Prepared &amp; Analyzed: 16-May-23

Benzene	2.01	0.050	mg/kg	2.00		100	81.4-118	3.27	15.8	
Toluene	2.05	0.050	mg/kg	2.00		102	88.7-121	1.45	15.9	
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	86.1-120	2.45	16	
m,p-Xylene	4.22	0.100	mg/kg	4.00		105	88.2-124	2.92	16.2	
o-Xylene	2.08	0.050	mg/kg	2.00		104	84.9-118	3.64	16.7	
Total Xylenes	6.30	0.150	mg/kg	6.00		105	87.3-122	3.16	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.1	71.5-134			U

**Batch 3051607 - Volatiles****Blank (3051607-BLK1)**

Prepared &amp; Analyzed: 16-May-23

Benzene	ND	0.050	mg/kg							U
Toluene	ND	0.050	mg/kg							U
Ethylbenzene	ND	0.050	mg/kg							U
Total Xylenes	ND	0.150	mg/kg							U

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**Analytical Results For:**

GHD SERVICES, INC.  
6121 INDIAN SCHOOL RD, NE STE. 200  
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE  
Project Number: 12608422  
Project Manager: NATE REECE  
Fax To:

Reported:  
18-May-23 13:16

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3051607 - Volatiles****Blank (3051607-BLK1)**

Prepared &amp; Analyzed: 16-May-23

Total BTEX	ND	0.300	mg/kg							U
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

**LCS (3051607-BS1)**

Prepared &amp; Analyzed: 16-May-23

Benzene	2.05	0.050	mg/kg	2.00		102	81.4-118			
Toluene	2.11	0.050	mg/kg	2.00		106	88.7-121			
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	86.1-120			
m,p-Xylene	4.38	0.100	mg/kg	4.00		109	88.2-124			
o-Xylene	2.04	0.050	mg/kg	2.00		102	84.9-118			
Total Xylenes	6.41	0.150	mg/kg	6.00		107	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	71.5-134			

**LCS Dup (3051607-BSD1)**

Prepared &amp; Analyzed: 16-May-23

Benzene	2.13	0.050	mg/kg	2.00		106	81.4-118	3.85	15.8	
Toluene	2.20	0.050	mg/kg	2.00		110	88.7-121	4.17	15.9	
Ethylbenzene	2.15	0.050	mg/kg	2.00		107	86.1-120	3.03	16	
m,p-Xylene	4.55	0.100	mg/kg	4.00		114	88.2-124	3.92	16.2	
o-Xylene	2.15	0.050	mg/kg	2.00		107	84.9-118	5.34	16.7	
Total Xylenes	6.70	0.150	mg/kg	6.00		112	87.3-122	4.37	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	71.5-134			

**Batch 3051608 - Volatiles****Blank (3051608-BLK1)**

Prepared &amp; Analyzed: 16-May-23

Benzene	ND	0.050	mg/kg							U
Toluene	ND	0.050	mg/kg							U
Ethylbenzene	ND	0.050	mg/kg							U
Total Xylenes	ND	0.150	mg/kg							U
Total BTEX	ND	0.300	mg/kg							U
Surrogate: 4-Bromofluorobenzene (PID)	0.0533		mg/kg	0.0500		107	71.5-134			

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

GHD SERVICES, INC.  
6121 INDIAN SCHOOL RD, NE STE. 200  
ALBUQUERQUE NM, 87110

Project: M-4 RELEASE  
Project Number: 12608422  
Project Manager: NATE REECE  
Fax To:

Reported:  
18-May-23 13:16

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3051608 - Volatiles****LCS (3051608-BS1)**

Prepared &amp; Analyzed: 16-May-23

Benzene	2.28	0.050	mg/kg	2.00		114	81.4-118			
Toluene	2.34	0.050	mg/kg	2.00		117	88.7-121			
Ethylbenzene	2.47	0.050	mg/kg	2.00		123	86.1-120			BS-3
m,p-Xylene	4.92	0.100	mg/kg	4.00		123	88.2-124			
o-Xylene	2.38	0.050	mg/kg	2.00		119	84.9-118			BS-3
Total Xylenes	7.30	0.150	mg/kg	6.00		122	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0524		mg/kg	0.0500		105	71.5-134			

**LCS Dup (3051608-BSD1)**

Prepared &amp; Analyzed: 16-May-23

Benzene	2.20	0.050	mg/kg	2.00		110	81.4-118	3.60	15.8	
Toluene	2.25	0.050	mg/kg	2.00		112	88.7-121	4.15	15.9	
Ethylbenzene	2.36	0.050	mg/kg	2.00		118	86.1-120	4.48	16	
m,p-Xylene	4.70	0.100	mg/kg	4.00		118	88.2-124	4.56	16.2	
o-Xylene	2.27	0.050	mg/kg	2.00		114	84.9-118	4.71	16.7	
Total Xylenes	6.97	0.150	mg/kg	6.00		116	87.3-122	4.61	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.8	71.5-134			U

**Batch 3051609 - Volatiles****Blank (3051609-BLK1)**

Prepared &amp; Analyzed: 16-May-23

Benzene	ND	0.050	mg/kg							U
Toluene	ND	0.050	mg/kg							U
Ethylbenzene	ND	0.050	mg/kg							U
Total Xylenes	ND	0.150	mg/kg							U
Total BTEX	ND	0.300	mg/kg							U
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	71.5-134			

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3051609 - Volatiles**

LCS (3051609-BS1)		Prepared & Analyzed: 16-May-23								
Benzene	2.38	0.050	mg/kg	2.00		119	81.4-118			BS-3
Toluene	2.37	0.050	mg/kg	2.00		119	88.7-121			
Ethylbenzene	2.31	0.050	mg/kg	2.00		115	86.1-120			
m,p-Xylene	4.73	0.100	mg/kg	4.00		118	88.2-124			
o-Xylene	2.28	0.050	mg/kg	2.00		114	84.9-118			
Total Xylenes	7.01	0.150	mg/kg	6.00		117	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		99.0	71.5-134			U

LCS Dup (3051609-BS1)		Prepared & Analyzed: 16-May-23								
Benzene	2.24	0.050	mg/kg	2.00		112	81.4-118	6.10	15.8	
Toluene	2.23	0.050	mg/kg	2.00		111	88.7-121	6.29	15.9	
Ethylbenzene	2.18	0.050	mg/kg	2.00		109	86.1-120	5.91	16	
m,p-Xylene	4.48	0.100	mg/kg	4.00		112	88.2-124	5.46	16.2	
o-Xylene	2.18	0.050	mg/kg	2.00		109	84.9-118	4.47	16.7	
Total Xylenes	6.66	0.150	mg/kg	6.00		111	87.3-122	5.14	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0497		mg/kg	0.0500		99.5	71.5-134			U

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3051539 - General Prep - Organics**

<b>Blank (3051539-BLK1)</b>		Prepared: 15-May-23 Analyzed: 16-May-23								
GRO C6-C10	ND	10.0	mg/kg							U
DRO >C10-C28	ND	10.0	mg/kg							U
EXT DRO >C28-C36	ND	10.0	mg/kg							U
Surrogate: 1-Chlorooctane	52.6		mg/kg	49.6		106	48.2-134			
Surrogate: 1-Chlorooctadecane	66.9		mg/kg	50.0		134	49.1-148			

<b>LCS (3051539-BS1)</b>		Prepared: 15-May-23 Analyzed: 16-May-23								
GRO C6-C10	183	10.0	mg/kg	200		91.7	78.5-124			
DRO >C10-C28	203	10.0	mg/kg	200		102	72.5-126			
Total TPH C6-C28	387	10.0	mg/kg	400		96.7	77.6-123			
Surrogate: 1-Chlorooctane	56.0		mg/kg	49.6		113	48.2-134			
Surrogate: 1-Chlorooctadecane	66.9		mg/kg	50.0		134	49.1-148			

<b>LCS Dup (3051539-BS1)</b>		Prepared: 15-May-23 Analyzed: 17-May-23								
GRO C6-C10	157	10.0	mg/kg	200		78.4	78.5-124	15.5	17.7	BS-3
DRO >C10-C28	176	10.0	mg/kg	200		88.0	72.5-126	14.4	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.2	77.6-123	14.9	18.5	
Surrogate: 1-Chlorooctane	46.6		mg/kg	49.6		94.0	48.2-134			
Surrogate: 1-Chlorooctadecane	57.0		mg/kg	50.0		114	49.1-148			

**Batch 3051540 - General Prep - Organics**

<b>Blank (3051540-BLK1)</b>		Prepared: 15-May-23 Analyzed: 16-May-23								
GRO C6-C10	ND	10.0	mg/kg							U
DRO >C10-C28	ND	10.0	mg/kg							U
EXT DRO >C28-C36	ND	10.0	mg/kg							U
Surrogate: 1-Chlorooctane	50.0		mg/kg	49.6		101	48.2-134			
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	49.1-148			

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3051540 - General Prep - Organics**

<b>LCS (3051540-BS1)</b>		Prepared: 15-May-23 Analyzed: 16-May-23								
GRO C6-C10	204	10.0	mg/kg	200	102	78.5-124				
DRO >C10-C28	196	10.0	mg/kg	200	97.9	72.5-126				
Total TPH C6-C28	399	10.0	mg/kg	400	99.9	77.6-123				
Surrogate: 1-Chlorooctane	53.9		mg/kg	49.6	109	48.2-134				
Surrogate: 1-Chlorooctadecane	55.8		mg/kg	50.0	112	49.1-148				

<b>LCS Dup (3051540-BSD1)</b>		Prepared: 15-May-23 Analyzed: 16-May-23								
GRO C6-C10	205	10.0	mg/kg	200	102	78.5-124	0.527	17.7		
DRO >C10-C28	180	10.0	mg/kg	200	90.2	72.5-126	8.19	21		
Total TPH C6-C28	385	10.0	mg/kg	400	96.3	77.6-123	3.65	18.5		
Surrogate: 1-Chlorooctane	55.1		mg/kg	49.6	111	48.2-134				
Surrogate: 1-Chlorooctadecane	56.4		mg/kg	50.0	113	49.1-148				

**Batch 3051541 - General Prep - Organics**

<b>Blank (3051541-BLK1)</b>		Prepared: 15-May-23 Analyzed: 16-May-23								
GRO C6-C10	ND	10.0	mg/kg							U
DRO >C10-C28	ND	10.0	mg/kg							U
EXT DRO >C28-C36	ND	10.0	mg/kg							U
Surrogate: 1-Chlorooctane	57.1		mg/kg	49.6	115	48.2-134				
Surrogate: 1-Chlorooctadecane	64.6		mg/kg	50.0	129	49.1-148				

<b>LCS (3051541-BS1)</b>		Prepared: 15-May-23 Analyzed: 16-May-23								
GRO C6-C10	206	10.0	mg/kg	200	103	78.5-124				
DRO >C10-C28	195	10.0	mg/kg	200	97.5	72.5-126				
Total TPH C6-C28	401	10.0	mg/kg	400	100	77.6-123				
Surrogate: 1-Chlorooctane	61.6		mg/kg	49.6	124	48.2-134				
Surrogate: 1-Chlorooctadecane	67.1		mg/kg	50.0	134	49.1-148				

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**Analytical Results For:**

GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110	Project: M-4 RELEASE Project Number: 12608422 Project Manager: NATE REECE Fax To:	Reported: 18-May-23 13:16
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3051541 - General Prep - Organics**

<b>LCS Dup (3051541-BSD1)</b>		Prepared: 15-May-23 Analyzed: 16-May-23								
GRO C6-C10	209	10.0	mg/kg	200	105	78.5-124	1.51	17.7		
DRO >C10-C28	196	10.0	mg/kg	200	98.0	72.5-126	0.519	21		
Total TPH C6-C28	405	10.0	mg/kg	400	101	77.6-123	1.03	18.5		
Surrogate: 1-Chlorooctane	62.6		mg/kg	49.6	126	48.2-134				
Surrogate: 1-Chlorooctadecane	67.4		mg/kg	50.0	135	49.1-148				

**Batch 3051544 - General Prep - Organics**

<b>Blank (3051544-BLK1)</b>		Prepared: 15-May-23 Analyzed: 16-May-23								
GRO C6-C10	ND	10.0	mg/kg							U
DRO >C10-C28	ND	10.0	mg/kg							U
EXT DRO >C28-C36	ND	10.0	mg/kg							U
Surrogate: 1-Chlorooctane	50.9		mg/kg	49.6	103	48.2-134				
Surrogate: 1-Chlorooctadecane	58.3		mg/kg	50.0	117	49.1-148				

<b>LCS (3051544-BS1)</b>		Prepared: 15-May-23 Analyzed: 16-May-23								
GRO C6-C10	220	10.0	mg/kg	200	110	78.5-124				
DRO >C10-C28	217	10.0	mg/kg	200	109	72.5-126				
Total TPH C6-C28	437	10.0	mg/kg	400	109	77.6-123				
Surrogate: 1-Chlorooctane	61.8		mg/kg	49.6	125	48.2-134				
Surrogate: 1-Chlorooctadecane	71.1		mg/kg	50.0	142	49.1-148				

<b>LCS Dup (3051544-BSD1)</b>		Prepared: 15-May-23 Analyzed: 16-May-23								
GRO C6-C10	212	10.0	mg/kg	200	106	78.5-124	3.67	17.7		
DRO >C10-C28	209	10.0	mg/kg	200	105	72.5-126	3.65	21		
Total TPH C6-C28	421	10.0	mg/kg	400	105	77.6-123	3.66	18.5		
Surrogate: 1-Chlorooctane	57.1		mg/kg	49.6	115	48.2-134				
Surrogate: 1-Chlorooctadecane	65.9		mg/kg	50.0	132	49.1-148				

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Notes and Definitions

- U Analyte included in the analysis, but not detected
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celest D. Keene

Celey D. Keene, Lab Director/Quality Manager





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(575) 393-2326 FAX (575) 393-2476

Form containing company information (GHD), project manager (Nate Reece / JT Murrey), address, phone numbers, project details (M-4 Release), and a table of samples (BH-11 to BH-20) with columns for matrix, preservation, and sampling. Includes handwritten sample IDs and dates.

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Form for relinquishing and receiving the samples, including dates (5-15-23, 5/15/23), times (1249, 1425), and signatures. Includes checkboxes for phone and fax results, and a remarks section.

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(575) 393-2326 FAX (575) 393-2476

RECEIVED BY: [Signature]

Form containing company information (GHD), project details (Nate Reece / JT Murrey), analysis request table with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling, and a signature section with dates and times.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(575) 393-2326 FAX (575) 393-2476

Form containing company information (GHD), project manager (Nate Reece / JT Murrey), address, phone numbers, and a detailed table of samples (BH-31 to SW-7) with columns for matrix, preservation, and sampling. Includes handwritten sample IDs like H232416 and signatures for relinquished and received parties.

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service.

Bottom section of the form with signature lines for 'Relinquished By' and 'Received By', date and time fields, and a 'REMARKS' section containing the text 'Please email results to: Dean Ericson, jt.murrey@ghd.com; nate.reece@ghd.com, daniel.sparks@ghd.com, Standard TAT'.

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Form containing company information (GHD), project details (M-4 Release), analysis request table with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling, and signature sections for Relinquished and Delivered By.

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: GHD
Project Manager: Nate Reece / JT Murrey
Address: 6121 Indian School Rd. NE St. 200
City: Albuquerque State: NM Zip: 87110
Phone #: (361)252-6136 Fax #:
Project #: 12608422 Project Owner: ETC Texas Pipeline, Ltd.
Project Name: M-4 Release
Project Location:
Sampler Name: Daniel Sparks

Table with columns: Lab I.D., Sample I.D., MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV., SAMPLING (DATE, TIME), and analysis methods (BTX, TPH, Chloride). Includes handwritten entries for sample IDs H232416 and SW-18 through SW-27.

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Relinquished By: [Signature] Date: 5-15-23 Time: 1252
Received By: [Signature] Date: 5/15/23 Time: 1425
Delivered By: (Circle One) 4.4) C-O-U; 38c #113
Sample Condition: Cool Intact [checked]
CHECKED BY: [Signature]

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Form containing company information (GHD), project manager (Nate Reece / JT Murrey), address (6121 Indian School Rd. NE St. 200), and analysis request details. Includes a table for Lab I.D., Sample I.D., Matrix, and Sampling.

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Signature and date section. Includes 'Relinquished By' (signature), 'Received By' (signature), 'Date' (5-15-23), and 'Time' (1253). Includes 'Delivered By' (442) c-o-u, 3:8-#113) and 'Sample Condition' (Cool Intact).



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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June 15, 2023

DEAN ERICSON  
ENERGY TRANSFER  
P. O. BOX 1226  
JAL, NM 88252

RE: M - 4

Enclosed are the results of analyses for samples received by the laboratory on 06/12/23 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: BH - 1 A (H232999-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.15	108	2.00	2.73	
Toluene*	<0.050	0.050	06/14/2023	ND	2.22	111	2.00	3.65	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.26	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	158	78.8	200	26.6	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	166	83.2	200	24.2	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: BH - 7 A (H232999-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.15	108	2.00	2.73	
Toluene*	<0.050	0.050	06/14/2023	ND	2.22	111	2.00	3.65	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.26	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	158	78.8	200	26.6	
<b>DRO &gt;C10-C28*</b>	<b>15.9</b>	10.0	06/13/2023	ND	166	83.2	200	24.2	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: BH - 11 A (H232999-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.15	108	2.00	2.73	
Toluene*	<0.050	0.050	06/14/2023	ND	2.22	111	2.00	3.65	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.26	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: BH - 13 A (H232999-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.15	108	2.00	2.73	
Toluene*	<0.050	0.050	06/14/2023	ND	2.22	111	2.00	3.65	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.26	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: BH - 15 A (H232999-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.15	108	2.00	2.73	
Toluene*	<0.050	0.050	06/14/2023	ND	2.22	111	2.00	3.65	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.26	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: BH - 21 A (H232999-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.15	108	2.00	2.73	
Toluene*	<0.050	0.050	06/14/2023	ND	2.22	111	2.00	3.65	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	2.12	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.68	111	6.00	3.26	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: BH - 23 A (H232999-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	QR-03
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	QR-03
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	QR-03
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: SW - 1 A (H232999-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: SW - 2 A (H232999-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/13/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: SW - 4 A (H232999-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	06/13/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
<b>DRO &gt;C10-C28*</b>	<b>31.1</b>	10.0	06/13/2023	ND	162	80.9	200	0.0568	
<b>EXT DRO &gt;C28-C36</b>	<b>10.5</b>	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: SW - 7 A (H232999-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	06/13/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
<b>DRO &gt;C10-C28*</b>	<b>10.4</b>	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: SW - 8 A (H232999-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/13/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: SW - 15 A (H232999-13)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/13/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: SW - 21 A (H232999-14)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/13/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: SW - 22 A (H232999-15)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/13/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	32.3	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 73.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: SW - 28 A (H232999-16)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	06/13/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
<b>DRO &gt;C10-C28*</b>	<b>32.9</b>	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENERGY TRANSFER  
 DEAN ERICSON  
 P. O. BOX 1226  
 JAL NM, 88252  
 Fax To:

Received:	06/12/2023	Sampling Date:	06/12/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	M - 4	Sampling Condition:	Cool & Intact
Project Number:	32.3824-103.203046	Sample Received By:	Tamara Oldaker
Project Location:	NEW MEXICO		

**Sample ID: SW - 29 A (H232999-17)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2023	ND	2.27	114	2.00	2.70	
Toluene*	<0.050	0.050	06/14/2023	ND	2.25	112	2.00	2.98	
Ethylbenzene*	<0.050	0.050	06/14/2023	ND	2.14	107	2.00	0.0716	
Total Xylenes*	<0.150	0.150	06/14/2023	ND	6.50	108	6.00	0.305	
Total BTEX	<0.300	0.300	06/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/13/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2023	ND	175	87.6	200	0.476	
DRO >C10-C28*	<10.0	10.0	06/13/2023	ND	162	80.9	200	0.0568	
EXT DRO >C28-C36	<10.0	10.0	06/13/2023	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>ETC</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>												
Project Manager: <b>Dean Ericson</b>		P.O. #:														
Address:		Company:														
City:	State:	Zip:	Attn:													
Phone #:	Fax #:	Address:														
Project #:	Project Owner:		City:													
Project Name: <b>M-4</b>			State:	Zip:												
Project Location: <b>32.3824 -103.203046</b>			Phone #:													
Sampler Name: <b>Walker B.</b>			Fax #:													

FOR LAB USE ONLY		(GRAB OR (C)OMP)	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		CL	TPH EXT	BTCP
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE			
<b>H232999</b>		<b>C</b>														
<b>1</b>	<b>BH-1A</b>										<b>6/12/23</b>	<b>10:05AM</b>				
<b>2</b>	<b>BH-7A</b>											<b>10:15AM</b>				
<b>3</b>	<b>BH-11A</b>											<b>10:14AM</b>				
<b>4</b>	<b>BH-13A</b>											<b>10:23AM</b>				
<b>5</b>	<b>BH-15A</b>											<b>10:31AM</b>				
<b>6</b>	<b>BH-21A</b>											<b>10:40AM</b>				
<b>7</b>	<b>BH-23A</b>											<b>10:46AM</b>				
<b>8</b>	<b>SW-1A</b>											<b>10:55AM</b>				
<b>9</b>	<b>SW-2A</b>											<b>11:01AM</b>				
<b>10</b>	<b>SW-4A</b>											<b>11:09AM</b>				

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Relinquished By:	Date: <b>6/12/23</b>	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <b>2:10pm</b>		All Results will be emailed. Please provide Email address:	
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		<b>NM</b>	
Delivered By: (Circle One)	Observed Temp. °C <b>1.1</b>	Sample Condition	Turnaround Time: <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C <b>0.5</b>	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID #113 Correction Factor -0.6°C	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
		CHECKED BY:		Observed Temp. °C
				Corrected Temp. °C

FORM-006 R 3.3 07/18/22

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

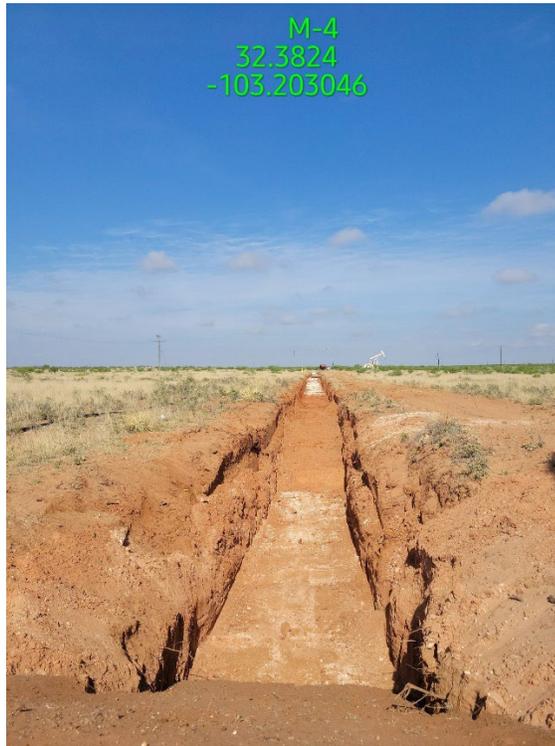
Company Name: <b>ETC</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
Project Manager: <b>Dean Ericson</b>		P.O. #:													
Address:		Company:													
City:	State:	Zip:	Attn:												
Phone #:	Fax #:	Address:	City:												
Project #:	Project Owner:	City:	State:												
Project Name: <b>M-4</b>	State:	Zip:	Phone #:												
Project Location: <b>32.3824 -103.203046</b>	Phone #:	Fax #:													
Sampler Name: <b>Tyler B.</b>	Fax #:														
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(GRAB OR COMPOUND)	MATRIX	PRESERV.	SAMPLING										
		# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME							CL	TPH ext	BTEX
<b>H232999</b>		<b>C</b>			<b>6/12/23</b>	<b>11:20am</b>									
<b>11 SW-7A</b>						<b>11:29am</b>									
<b>12 SW-8A</b>						<b>11:36am</b>									
<b>13 SW-15A</b>						<b>11:45am</b>									
<b>14 SW-21A</b>						<b>11:52am</b>									
<b>15 SW-22A</b>						<b>12:05pm</b>									
<b>16 SW-28A</b>						<b>12:10pm</b>									
<b>17 SW-29A</b>															

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Relinquished By:	Date: <b>6/12/23</b>	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <b>2:10pm</b>			All Results are emailed. Please provide Email address:	
Relinquished By:	Date:	Received By:	REMARKS:	
Time:				
Delivered By: (Circle One)	Observed Temp. °C <b>11</b>	Sample Condition	CHECKED BY: (Initials) <b>TO</b>	Turnaround Time: <b>NM</b>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <b>0.5</b>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
				Bacteria (only) Sample Condition
				Cool Intact Observed Temp. °C
				Yes <input type="checkbox"/> No <input type="checkbox"/>
				Thermometer ID #113
				Correction Factor -0.6°C
				Corrected Temp. °C

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# Attachment C Photographic Log



View of excavation facing west.

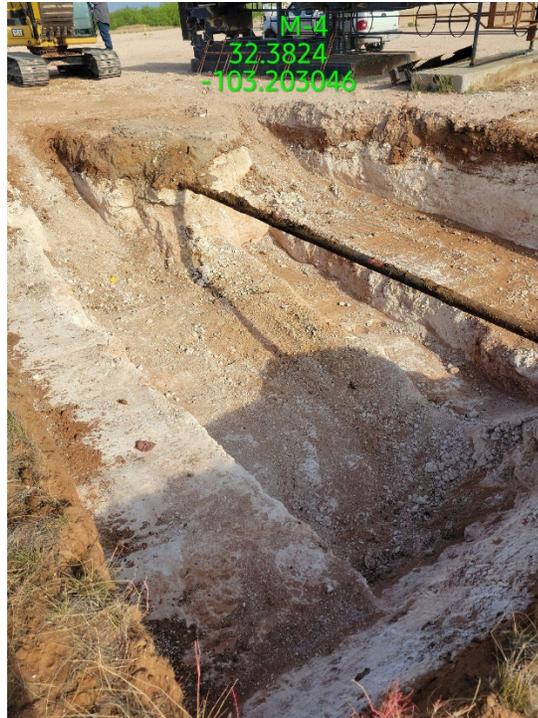


View of excavation facing east.



## Site Photograph

ETCTP M-4 Release Site.



View of western end of excavation facing northwest.



View of western end of excavation facing northeast.



## Site Photograph

ETCTP M-4 Release Site.



Aerial view of excavation facing east.



Aerial view of excavation facing north.



**Site Photograph**  
**ETCTP M-4 Release Site.**

GHD | Report for ETCTP | 12608422

**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 240406

**CONDITIONS**

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 240406
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
nvelez	None	10/5/2023