

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	nAPP2304144689
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party ETC Texas Pipeline, Ltd.	OGRID
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 32.144289 Longitude -103.908513
(NAD 83 in decimal degrees to 5 decimal places)

Site Name HS-1 Release	Site Type Pipeline
Date Release Discovered 02/01/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
L	8	25S	30E	Eddy

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (3.74bbbls)	Volume Recovered (0bbbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (31.25bbbls)	Volume Recovered (0bbbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbbls)	Volume Recovered (bbbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Unknown at this time

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? More than 25bbbls released
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If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Verbel notification given by Dean Ericson to Laura Tulk by phone on 02/10/2023

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 not been undertaken, explain why:

No freestanding liquid on site. No recoverable material removed at this time. NMSLO requires an Arc Survey be completed prior to any ground disturbance. Arc Survey has not been completed at this time

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: Dean D. Ericson Title: Sr. Environmental Specialist

Signature: Dean D. Ericson Date: 02/10/2023

email: dean.ericson@energytransfer.com Telephone: 432-238-2142

OCD Only

Received by: _____ Date: _____

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Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

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

Printed Name: Dean D. Ericson Title: Sr. Environmental Specialist
Signature: Dean D. Ericson Date: 092723
email: dean.ericson@energytransfer.com Telephone: 432-238-2142

OCD Only

Received by: _____ Date: _____

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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: 092723
 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: Ashley Maxwell Date: 11/22/2023
 Printed Name: Ashley Maxwell Title: Environmental Specialist

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

Our ref: 12605700

September 26, 2023

State of New Mexico Energy, Minerals and Resource Oil Conservation Division
District II
811 S. First St.
Artesia, NM 88210

Re: **Soil Remediation and Site Closure Report**
ETC Texas Pipeline, Ltd.
HS-1 Release
Incident ID: nAPP2304144689
L-8-25S-30E, Eddy County, New Mexico

1. Introduction

GHD Services, Inc. (GHD), on behalf of ETC Texas Pipeline, Ltd. (ETCTP), which is owned and operated by Energy Transfer (ET), submits this Soil Remediation and Site Closure Report to the State of New Mexico Energy, Minerals and Resource Oil Conservation Division (OCD) District II Office. This report provides documentation of remediation activities, confirmation sampling and analysis in the crude oil and produced water impacted area at the HS-1 Release (Site). ConocoPhillips/Concho is the operator of the pad location and associated equipment surrounding the release area. The Site is located in Unit Letter L Section 8 of Township 25 South and Range 30 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.144289° N Latitude and -103.908513° 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 II Office in Artesia, New Mexico. Notice was given to the OCD via Notification of Release (NOR) Submission, Action 185020 on February 10, 2023, and it was stated that the release occurred on February 1, 2023. A C-141 Release Notification for this release was submitted to the OCD on February 10, 2023. The C-141 stated 3.74 barrels (bbls) of crude oil and 31.25 bbls of produced water were released from the pipeline. There was no recovery of any fluids. The OCD assigned the release with Incident Number nAPP2304144689. The Initial, Site Characterization, 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 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 20, 2023, was approved by the NMOCD on August 3, 2023. Details of the Site Characterization documentation and previously completed Site assessment activities can be found in the aforementioned Site Characterization and Remediation Work Plan. The soil and 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	Benzene (mg/kg)	BTEX (mg/kg)	TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 feet)	10	50	100	600
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	10	50	100	600

4. Initial Soil Assessment Activities

On February 9, 2023, ETCTP personnel collected soil samples from near surface soils (2-inches to 4-inches) in the release area (1-10). Samples were submitted to Cardinal Laboratories (Cardinal), located in Hobbs, New Mexico and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW846 Method 8021B, total petroleum hydrocarbons (TPH) by EPA SW846 Method 8015B Modified, and chloride by EPA Standard Method 4500CL-B. Analytical results indicated benzene and BTEX concentrations to be below the applicable NMAC Table I Closure Criteria. Analytical results indicated one (1) of the soil samples (9 2”) exhibited TPH concentrations above NMAC Table I Closure Criteria. Analytical results indicated two (2) of the soil samples (9 2” and 10 2”) exhibited chloride concentrations above NMAC Table I Closure Criteria. Analytical results and sample locations are provided in the Site Characterization and Remediation Work Plan, dated March 20, 2023.

5. Remedial Excavation, Waste Management, and Confirmation Soil Sampling

Based on the results of the initial soil assessment activities conducted, ETCTP returned to excavate the affected soils at the Site (off-pad area). Excavation activities were conducted from March 31 through April 10, 2023. GHD mobilized to the Site on April 5 to collect confirmation samples. Six (6) bottom hole (BH-1 through BH-6) and five (5) sidewall (SW-1 through SW-5) composite confirmation samples were collected. Composite confirmation

samples represented areas no greater than 200 square feet. All soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW846 Method 8015B Modified, and chloride by EPA Standard Method 4500CL-B.

Analytical results indicated none of the samples exhibited benzene, BTEX, TPH, or chloride concentrations above NMAC Table I Closure Criteria. Figure 2 depicts the locations of the composite confirmation samples. Analytical results are included in Table 1 and in the Laboratory Analytical Reports included as Attachment A.

ETCTP personnel returned to the Site to continue excavation activities on August 28, 2023. Excavation activities continued through September 5, 2023. On September 5, 2023, GHD returned to the Site to collect additional confirmation samples from the affected area that was excavated by ETCTP. GHD collected an additional fifteen (15) bottom hole (BH-7 through BH-21) and ten (10) sidewall (SW-6 through SW-15) composite confirmation samples. Composite confirmation samples represented areas no greater than 200 square feet. All soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW846 Method 8015B Modified, and chloride by EPA Standard Method 4500CL-B.

Analytical results indicated four (4) of the samples exhibited chloride concentrations above NMAC Table I Closure Criteria (BH-10 through BH-12 and SW-15). None of the samples exhibited benzene, BTEX, or TPH concentrations above Table I Closure Criteria. Figure 2 depicts the locations of the composite confirmation samples. Analytical results are included in Table 1 and in the Laboratory Analytical Reports included as Attachment A.

Due to the samples exhibiting chloride concentrations above NMAC Table I Closure Criteria, ETCTP personnel returned to the Site on September 15, 2023, to further excavate the affected areas and resample. The areas around BH-10, BH-11, and BH-12 were deepened from four (4) feet below ground surface (bgs) to five (5) feet bgs and resampled (BH-10A, BH-11A, and BH-12A). The sidewall where SW-15 was collected was excavated further and resampled (SW-15A). Composite confirmation samples represented areas no greater than 200 square feet. All soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW846 Method 8015B Modified, and chloride by EPA Standard Method 4500CL-B.

Analytical results indicated none of the samples exhibited benzene, BTEX, TPH, or chloride concentrations above NMAC Table I Closure Criteria. Figure 2 depicts the locations of the composite confirmation samples. Analytical results are included in Table 1 and in the Laboratory Analytical Reports included as Attachment A. A photographic log is included as Attachment B.

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 (fEEM0112342028), Lea Land, LLC facility located at MM64, Highway 62/180 East, Carlsbad, NM, 88220 and the OCD-permitted (fJEG1635837006) Sundance West facility located at 196 Wallach Ln, Eunice, NM 88231. A total of approximately 746 tons (733 tons to Lea Land and 13 tons to Sundance West) of impacted soil was 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.

6. nAPP2304144689 Closure Request

The excavation will be backfilled with non-impacted soil obtained from a local off-site source. Site characterization, soil delineation, and remediation activities for Incident nAPP2304144689 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 nAPP2304144689.

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

Sincerely,

GHD



J.T. Murrey
Senior Project Manager

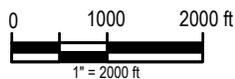
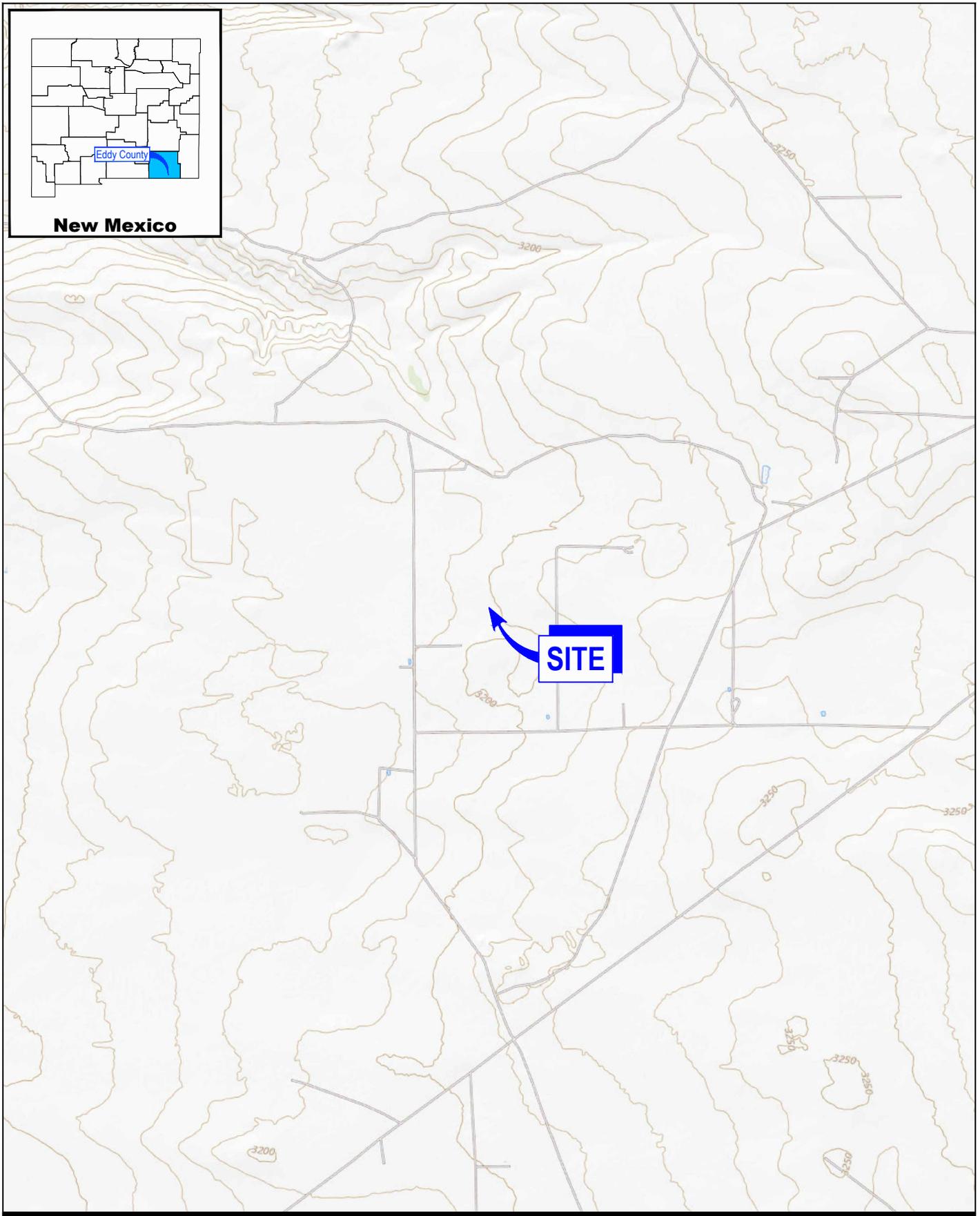


Nate Reece
Environmental Scientist

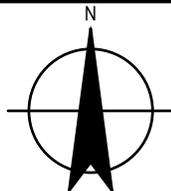
Encl. Figure 1 – Site Location Map
Figure 2 – Confirmation Sampling Locations Map
Table 1 – Summary of Soil Analytical Data
Table 2 – Daily Soil Disposal Summary
Attachment A – Laboratory Analytical Reports and Chain-of-Custody Documentation
Attachment B – Photographic Log
Attachment C – Sampling Notifications

cc: Dean Erikson, ET

Figures



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



ETC TEXAS PIPELINE, LTD.
EDDY COUNTY, NEW MEXICO
HS-1 RELEASE
NAPP2304144689

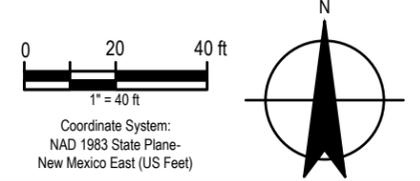
SITE LOCATION MAP

Project No. 12605700
Date September 2023

FIGURE 1



- LEGEND**
- EXCAVATED AREA
 - SW-8 INDICATES SIDE WALL COMPOSITE SAMPLE
 - SW-6 INDICATES SIDE WALL COMPOSITE SAMPLE
 - SW-7 INDICATES SIDE WALL COMPOSITE SAMPLE



ETC TEXAS PIPELINE, LTD.
 EDDY COUNTY, NEW MEXICO
 HS-1 RELEASE - NAPP2304144689

Project No. 12605700
 Date September 2023

**CONFIRMATION SAMPLING
 LOCATIONS MAP**

FIGURE 2

Tables

Table 1
Summary of Soil Analytical Data
HS-1 Release Site
ETC Texas Pipeline, Ltd.
Eddy County, New Mexico
nAPP2304144689

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride				
								GRO(C6-C10)	DRO(C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO					
								(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
								Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC								100
			10	---	---	---	50	---	---	---	100	600				
Bottom Hole Confirmation Samples																
BH-1	4/5/23	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0				
BH-2	4/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0				
BH-3	4/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0				
BH-4	4/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112				
BH-5	4/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144				
BH-6	4/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192				
BH-7	9/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0				
BH-8	9/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0				
BH-9	9/5/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	544				
BH-10	9/5/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1660				
BH-10A	9/13/23	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0				
BH-11	9/5/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3490				
BH-11A	9/13/23	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0				
BH-12	9/5/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	976				
BH-12A	9/13/23	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0				
BH-13	9/5/23	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	512				
BH-14	9/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0				
BH-15	9/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0				
BH-16	9/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0				
BH-17	9/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0				
BH-18	9/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0				
BH-19	9/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0				
BH-20	9/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0				
BH-21	9/5/23	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0				
Sidewall Confirmation Samples																
SW-1	4/5/23	0-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144				
SW-2	4/5/23	0-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128				
SW-3	4/5/23	0-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112				
SW-4	4/5/23	0-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240				
SW-5	4/5/23	0-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160				

Table 1
Summary of Soil Analytical Data
HS-1 Release Site
ETC Texas Pipeline, Ltd.
Eddy County, New Mexico
nAPP2304144689

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO(C6-C10)	DRO(C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
								(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC												
			10	---	---	---	50	---	---	---	100	600
SW-6	9/5/23	0-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
SW-7	9/5/23	0-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SW-8	9/5/23	0-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
SW-9	9/5/23	0-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.4	<10.0	10.4	64.0
SW-10	9/5/23	0-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
SW-11	9/5/23	0-1.5/0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SW-12	9/5/23	0-1.5/0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SW-13	9/5/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
SW-14	9/5/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
SW-15	9/5/23	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1520
SW-15A	9/13/23	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<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 NMOC 19.15.29.12 Table 1 Closure Criteria for the site.
8. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

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

Table 2
Daily Disposal Summary
HS-1 Release
Eddy County, New Mexico
nAPP2304144689

Date of Disposal	Total Yards Disposed
3/31/2023	52,280
4/3/2023	70,680
4/4/2023	23,180
4/5/2023	50,700
4/6/2023	130,200
8/28/2023	56,240
8/29/2023	186,180
8/30/2023	113,800
8/31/2023	280,160
9/1/2023	293,820
9/5/2023	209,500
9/13/2023	25,000
Project Total	746

Attachment A

Laboratory Analytical Reports and Chain-of-Custody Documentation



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

April 12, 2023

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

RE: HS - 1

Enclosed are the results of analyses for samples received by the laboratory on 04/06/23 8:30.

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.

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". The signature is written in a cursive, flowing style.

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:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	32.144289 -103.908513		

Sample ID: BH - 1 7' (H231611-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50	
Total BTEX	<0.300	0.300	04/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/11/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2023	ND	182	91.0	200	2.28	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	167	83.7	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 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

Notes and Definitions

- 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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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

April 12, 2023

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

RE: HS - 1 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/06/23 9:47.

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.

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:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	HS - 1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: BH - 2 (H231612-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50	
Total BTEX	<0.300	0.300	04/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/11/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2023	ND	182	91.0	200	2.28	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	167	83.7	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 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:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	HS - 1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: BH - 3 (H231612-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50	
Total BTEX	<0.300	0.300	04/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/11/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2023	ND	169	84.7	200	4.43	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	186	93.1	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 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:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	HS - 1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: BH - 4 (H231612-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50	
Total BTEX	<0.300	0.300	04/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/11/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/11/2023	ND	169	84.7	200	4.43	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	186	93.1	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 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: 04/06/2023
 Reported: 04/12/2023
 Project Name: HS - 1 RELEASE
 Project Number: 12605700
 Project Location: NONE GIVEN

Sampling Date: 04/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 5 (H231612-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50	
Total BTEX	<0.300	0.300	04/11/2023	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	144	16.0	04/11/2023	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	04/11/2023	ND	169	84.7	200	4.43	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	186	93.1	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 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:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	HS - 1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: BH - 6 (H231612-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50	
Total BTEX	<0.300	0.300	04/11/2023	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	192	16.0	04/11/2023	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	04/11/2023	ND	169	84.7	200	4.43	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	186	93.1	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 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:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	HS - 1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SW - 1 (H231612-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50	
Total BTEX	<0.300	0.300	04/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	144	16.0	04/11/2023	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	04/11/2023	ND	169	84.7	200	4.43	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	186	93.1	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 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:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	HS - 1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SW - 2 (H231612-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2023	ND	1.88	93.8	2.00	4.14	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.98	98.8	2.00	3.98	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.09	102	6.00	3.50	
Total BTEX	<0.300	0.300	04/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	128	16.0	04/11/2023	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	04/11/2023	ND	169	84.7	200	4.43	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	186	93.1	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	HS - 1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SW - 3 (H231612-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.86	93.0	2.00	3.21		
Toluene*	<0.050	0.050	04/11/2023	ND	1.95	97.7	2.00	1.65		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	2.09	104	2.00	1.36		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.33	106	6.00	0.812		
Total BTEX	<0.300	0.300	04/11/2023	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	112	16.0	04/11/2023	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	04/11/2023	ND	169	84.7	200	4.43		
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	186	93.1	200	5.46		
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND						

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	HS - 1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SW - 4 (H231612-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2023	ND	1.86	93.0	2.00	3.21	
Toluene*	<0.050	0.050	04/11/2023	ND	1.95	97.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	2.09	104	2.00	1.36	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.33	106	6.00	0.812	
Total BTEX	<0.300	0.300	04/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	240	16.0	04/11/2023	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	04/11/2023	ND	169	84.7	200	4.43	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	186	93.1	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 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:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	HS - 1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SW - 5 (H231612-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2023	ND	1.86	93.0	2.00	3.21	
Toluene*	<0.050	0.050	04/11/2023	ND	1.95	97.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	2.09	104	2.00	1.36	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.33	106	6.00	0.812	
Total BTEX	<0.300	0.300	04/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	160	16.0	04/11/2023	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	04/11/2023	ND	169	84.7	200	4.43	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	186	93.1	200	5.46	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: GHD		Project Manager: Nate Reece / JT Murrey		Address: 6121 Indian School Rd. NE St. 200		City: Albuquerque		State: NM		Zip: 87110		P.O. #: _____		Company: Energy Transfer	
Phone #: (361)252-6136		Fax #: _____		Project Owner: ETC Texas Pipeline, Ltd.		City: _____		State: _____		Zip: _____		Phone #: _____		Fax #: _____	
Project Name: HS-1 Release		Project Location: _____		Sampler Name: Daniel Sparks		Lab I.D.:		FOR LAB USE ONLY		Matrix:		PRESERV.:		SAMPLING:	

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	BTEX Modified 8021	TPH Modified 8015	Chloride Method 4500/Method 300
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE					
1	C	1	X					4/5/2023	X	X	X	
2	C	1	X					4/5/2023	X	X	X	
3	C	1	X					4/5/2023	X	X	X	
4	C	1	X					4/5/2023	X	X	X	
5	C	1	X					4/5/2023	X	X	X	
6	C	1	X					4/5/2023	X	X	X	
7	C	1	X					4/5/2023	X	X	X	
8	C	1	X					4/5/2023	X	X	X	
9	C	1	X					4/5/2023	X	X	X	
10	C	1	X					4/5/2023	X	X	X	

Relinquished By: <i>[Signature]</i>	Date: 4-6-23	Received By: <i>[Signature]</i>	Date: 4-5-2023
Delivered By: (Circle One) <i>393-2476</i>	Sample Condition: <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact	Checked By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No
Sampler - UPS - Bus - Other: <i>3-3-2476</i>	<input type="checkbox"/> No <input type="checkbox"/> No	REMARKS: Please email results to: Dean Ericson, jimurrey@gnd.com; nate.reece@gnd.com; daniel.sparks@gnd.com	Add'l Phone #: _____

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

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September 08, 2023

NATE REECE

GHD

11451 KATY FWY #400

HOUSTON, TX 77079

RE: HS - 1

Enclosed are the results of analyses for samples received by the laboratory on 09/06/23 13:51.

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.

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:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received: 09/06/2023
 Reported: 09/08/2023
 Project Name: HS - 1
 Project Number: 12605700
 Project Location: ETC - CARLSBAD

Sampling Date: 09/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BH - 7 (H234817-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796		
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	QR-03	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	QR-03	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	QR-03	
Total BTEX	<0.300	0.300	09/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	48.0	16.0	09/07/2023	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	09/07/2023	ND	195	97.3	200	0.486		
DRO >C10-C28*	<10.0	10.0	09/07/2023	ND	191	95.6	200	2.61		
EXT DRO >C28-C36	<10.0	10.0	09/07/2023	ND						

Surrogate: 1-Chlorooctane 65.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.8 % 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:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: BH - 8 (H234817-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	09/07/2023	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	09/07/2023	ND	195	97.3	200	0.486	
DRO >C10-C28*	<10.0	10.0	09/07/2023	ND	191	95.6	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	09/07/2023	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 49.1-148

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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
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: BH - 9 (H234817-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	544	16.0	09/07/2023	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	09/07/2023	ND	195	97.3	200	0.486	
DRO >C10-C28*	<10.0	10.0	09/07/2023	ND	191	95.6	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	09/07/2023	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: BH - 10 (H234817-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	1660	16.0	09/07/2023	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	09/07/2023	ND	195	97.3	200	0.486	
DRO >C10-C28*	<10.0	10.0	09/07/2023	ND	191	95.6	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	09/07/2023	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: BH - 11 (H234817-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	3400	16.0	09/07/2023	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	09/07/2023	ND	195	97.3	200	0.486	
DRO >C10-C28*	<10.0	10.0	09/07/2023	ND	191	95.6	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	09/07/2023	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: BH - 12 (H234817-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	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
Chloride	976	16.0	09/07/2023	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	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 66.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received: 09/06/2023
 Reported: 09/08/2023
 Project Name: HS - 1
 Project Number: 12605700
 Project Location: ETC - CARLSBAD

Sampling Date: 09/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BH - 13 (H234817-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	512	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: BH - 14 (H234817-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	80.0	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: BH - 15 (H234817-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	96.0	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: BH - 16 (H234817-10)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	64.0	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 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:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: BH - 17 (H234817-11)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	80.0	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: BH - 18 (H234817-12)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	64.0	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: BH - 19 (H234817-13)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	64.0	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: BH - 20 (H234817-14)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: BH - 21 (H234817-15)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/06/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 70.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 49.1-148

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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: SW - 6 (H234817-16)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2023	ND	1.95	97.3	2.00	0.796	
Toluene*	<0.050	0.050	09/07/2023	ND	2.06	103	2.00	6.78	
Ethylbenzene*	<0.050	0.050	09/07/2023	ND	2.05	103	2.00	0.170	
Total Xylenes*	<0.150	0.150	09/07/2023	ND	6.11	102	6.00	0.368	
Total BTEX	<0.300	0.300	09/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	144	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: SW - 7 (H234817-17)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2023	ND	1.95	97.3	2.00	0.796		
Toluene*	<0.050	0.050	09/07/2023	ND	2.06	103	2.00	6.78		
Ethylbenzene*	<0.050	0.050	09/07/2023	ND	2.05	103	2.00	0.170		
Total Xylenes*	<0.150	0.150	09/07/2023	ND	6.11	102	6.00	0.368		
Total BTEX	<0.300	0.300	09/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	64.0	16.0	09/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57		
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06		
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND						

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: SW - 8 (H234817-18)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/07/2023	ND	1.95	97.3	2.00	0.796		
Toluene*	<0.050	0.050	09/07/2023	ND	2.06	103	2.00	6.78		
Ethylbenzene*	<0.050	0.050	09/07/2023	ND	2.05	103	2.00	0.170		
Total Xylenes*	<0.150	0.150	09/07/2023	ND	6.11	102	6.00	0.368		
Total BTEX	<0.300	0.300	09/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	176	16.0	09/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57		
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06		
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND						

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: SW - 9 (H234817-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.6	2.00	1.07	
Toluene*	<0.050	0.050	09/06/2023	ND	2.30	115	2.00	0.716	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.34	117	2.00	0.0506	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	7.03	117	6.00	0.0540	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	10.4	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 71.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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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
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: SW - 10 (H234817-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.6	2.00	1.07	
Toluene*	<0.050	0.050	09/06/2023	ND	2.30	115	2.00	0.716	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.34	117	2.00	0.0506	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	7.03	117	6.00	0.0540	
Total BTEX	<0.300	0.300	09/06/2023	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	160	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 72.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: SW - 11 (H234817-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.6	2.00	1.07	
Toluene*	<0.050	0.050	09/06/2023	ND	2.30	115	2.00	0.716	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.34	117	2.00	0.0506	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	7.03	117	6.00	0.0540	
Total BTEX	<0.300	0.300	09/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	80.0	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: SW - 12 (H234817-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.6	2.00	1.07	
Toluene*	<0.050	0.050	09/06/2023	ND	2.30	115	2.00	0.716	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.34	117	2.00	0.0506	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	7.03	117	6.00	0.0540	
Total BTEX	<0.300	0.300	09/06/2023	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
Chloride	64.0	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: SW - 13 (H234817-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2023	ND	1.95	97.6	2.00	1.07	
Toluene*	<0.050	0.050	09/06/2023	ND	2.30	115	2.00	0.716	
Ethylbenzene*	<0.050	0.050	09/06/2023	ND	2.34	117	2.00	0.0506	
Total Xylenes*	<0.150	0.150	09/06/2023	ND	7.03	117	6.00	0.0540	
Total BTEX	<0.300	0.300	09/06/2023	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	368	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 82.4 % 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:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received: 09/06/2023
 Reported: 09/08/2023
 Project Name: HS - 1
 Project Number: 12605700
 Project Location: ETC - CARLSBAD

Sampling Date: 09/05/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 14 (H234817-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2023	ND	1.95	97.6	2.00	1.07	
Toluene*	<0.050	0.050	09/07/2023	ND	2.30	115	2.00	0.716	
Ethylbenzene*	<0.050	0.050	09/07/2023	ND	2.34	117	2.00	0.0506	
Total Xylenes*	<0.150	0.150	09/07/2023	ND	7.03	117	6.00	0.0540	
Total BTEX	<0.300	0.300	09/07/2023	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
Chloride	288	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/06/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/06/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

GHD
 NATE REECE
 11451 KATY FWY #400
 HOUSTON TX, 77079
 Fax To:

Received:	09/06/2023	Sampling Date:	09/05/2023
Reported:	09/08/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	12605700	Sample Received By:	Dionica Hinojos
Project Location:	ETC - CARLSBAD		

Sample ID: SW - 15 (H234817-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/07/2023	ND	1.95	97.6	2.00	1.07	
Toluene*	<0.050	0.050	09/07/2023	ND	2.30	115	2.00	0.716	
Ethylbenzene*	<0.050	0.050	09/07/2023	ND	2.34	117	2.00	0.0506	
Total Xylenes*	<0.150	0.150	09/07/2023	ND	7.03	117	6.00	0.0540	
Total BTEX	<0.300	0.300	09/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	1520	16.0	09/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2023	ND	193	96.4	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/07/2023	ND	191	95.7	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	09/07/2023	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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Notes and Definitions

- 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 LCS/D recovery and/or RPD values.
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

1 of 3

Company Name: GHD Inc.		BILL TO	
Project Manager: Nate Reece	Address: 11451 Katy Fwy #400	P.O. #: Direct Bill	ANALYSIS REQUEST
City: Houston	State: TX zip: 77079	Company: ETC	
Phone #: 281-386-7158	Fax #: Project Owner:	Attn: Dean	
Project #: 12605700	Project Name: HS-1	Address:	
Project Location: Carlsbad	State: NM	City:	
Sampler Name: Mitchell Clemens	Project Location: Carlsbad	State: NM	
	Phone #: Zip:	Phone #:	
	Fax #:	Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX (EPA SW846 Method 8021B)	TPH (EPA SW846 Method 8051B Modified)	Chloride (EPA Method-300) 4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
1	BH-7	C	1			X				9-5-23	12:10	X	X	X
2	BH-8										12:15			
3	BH-9										12:20			
4	BH-10										12:25			
5	BH-11										12:30			
6	BH-12										12:35			
7	BH-13										12:40			
8	BH-14										13:50			
9	BH-15										14:00			
10	BH-16										14:30			

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Relinquished By: *Mitchell Clemens* Date: 9/6/23 Received By: *[Signature]* Date: 9/6/23
 Relinquished By: *[Signature]* Date: 9/6/23 Received By: *[Signature]* Date: 9/6/23

Delivered By: (Circle One) Observed Temp. °C: 5.0 Corrected Temp. °C: *[Signature]*
 Sampler - UPS - Bus - Other: Sample Condition: Cool Intact Yes No
 CHECKED BY: (Initials) *[Signature]*
 Turnaround Time: *445* Standard Bacteria (only)
 Thermometer ID # *445* Rush Cool Intact Yes No
 Correction Factor -0.5°C *42-44* No No

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: GHD Inc. Project Manager: Nate Reece Address: 11451 Katy Fwy #400 City: Houston State: TX zip: 77079 Phone #: 281-386-7158 Fax #: Project #: 12605700 Project Owner: Project Name: HS-1 Project Location: Carlsbad Sampler Name: Mitchell Clemens		BILL TO P.O. #: Direct Bill Company: ETC Attn: Dean Address: City: State: Zip: Phone #: Fax #:	
FOR LAB USE ONLY H334817		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	DATE TIME
11	BH-17	C	14:35
12	BH-18	1	14:40
13	BH-19	1	14:45
14	BH-20	1	14:50
15	BH-21	1	14:55
16	SW-6	1	15:00
17	SW-7	1	15:10
18	SW-8	1	15:25
19	SW-9	1	15:30
20	SW-10	1	15:35

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Relinquished By: *Mitchell Clemens*
 Date: 9/14/23
 Time: 13:05

Received By: *[Signature]*
 Date: 9/14/23
 Time: 13:19

Observed Temp. °C: 58.2
 Corrected Temp. °C:
 Sample Condition: Cool Intact
 Bacteria (only) Sample Condition: Cool Intact

Turnaround Time: Standard Rush 48-hr
 Thermometer ID #413
 Correction Factor -0.5°C

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS:

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name: GHD Inc.		BILL TO		P.O. #: Direct Bill		ANALYSIS REQUEST	
Project Manager: Nate Reece		Address: 11451 Katy Fwy #400		Company: ETC			
City: Houston		State: TX Zip: 77079		Attn: Dean			
Phone #: 281-386-7158		Fax #: 281-386-7158		Address:			
Project #: 12605700		Project Owner:		City:			
Project Name: HS-1		State:		Zip:			
Project Location: Carlsbad		Phone #:		Fax #:			
Sampler Name: Mitchell Clemens		FOR LAB USE ONLY		HS-3487			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX (EPA SW846 Method 8021B)	TPH (EPA SW846 Method 8051B Modified)	Chloride (EPA Method-300) 4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
	SW-11	C	1			X				9-5-23	15:40	X	X	X
	SW-12	C	1			X					15:45	X	X	X
	SW-13	C	1			X					15:48	X	X	X
	SW-14	C	1			X					15:50	X	X	X
	SW-15	C	1			X					15:55	X	X	X

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Relinquished By: <i>Mitchell Clemens</i>	Date: 9-6-23	Received By: <i>[Signature]</i>	Date: 9-6-23	Time: 13:05	Time: 13:05
Observed Temp. °C: 51	Corrected Temp. °C: 51	Sample Condition: Cool Intact	Checked By: <i>[Signature]</i>	Thermometer ID: #143	Standard: Rush 48-hr
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: _____					

Turnaround Time: 148 hours

FORM-006-R-3-Z-T010721

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



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

September 14, 2023

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

RE: HS - 1

Enclosed are the results of analyses for samples received by the laboratory on 09/13/23 13:35.

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.

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:	09/13/2023	Sampling Date:	09/13/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	32.144289 -103.908513		

Sample ID: BH - 10 A 5' (H234944-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.93	96.5	2.00	1.30	
Toluene*	<0.050	0.050	09/14/2023	ND	1.90	94.8	2.00	1.53	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	1.13	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	6.00	100	6.00	1.55	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	09/14/2023	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	09/14/2023	ND	195	97.3	200	2.70	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	208	104	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

Cardinal Laboratories

*=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:	09/13/2023	Sampling Date:	09/13/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	32.144289 -103.908513		

Sample ID: BH - 11 A 5' (H234944-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.93	96.5	2.00	1.30	
Toluene*	<0.050	0.050	09/14/2023	ND	1.90	94.8	2.00	1.53	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	1.13	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	6.00	100	6.00	1.55	
Total BTEX	<0.300	0.300	09/14/2023	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
Chloride	<16.0	16.0	09/14/2023	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	09/14/2023	ND	195	97.3	200	2.70	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	208	104	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	09/13/2023	Sampling Date:	09/13/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	32.144289 -103.908513		

Sample ID: BH - 12 A 5' (H234944-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.93	96.5	2.00	1.30	
Toluene*	<0.050	0.050	09/14/2023	ND	1.90	94.8	2.00	1.53	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	1.13	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	6.00	100	6.00	1.55	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	<16.0	16.0	09/14/2023	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	09/14/2023	ND	195	97.3	200	2.70	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	208	104	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	09/13/2023	Sampling Date:	09/13/2023
Reported:	09/14/2023	Sampling Type:	Soil
Project Name:	HS - 1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	32.144289 -103.908513		

Sample ID: SW - 15 A (H234944-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.93	96.5	2.00	1.30	
Toluene*	<0.050	0.050	09/14/2023	ND	1.90	94.8	2.00	1.53	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	1.13	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	6.00	100	6.00	1.55	
Total BTEX	<0.300	0.300	09/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	16.0	16.0	09/14/2023	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	09/14/2023	ND	195	97.3	200	2.70	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	208	104	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Attachment B Photographic Log



View of excavation facing east (BH-1 location).



View of excavation facing south.



Site Photograph

ETCTP HS-1 Release Site.

GHD | Report for ETCTP | 12605700



HS-1, 32.144289, -103.908513
09/05/2023

View of excavation facing north.



HS-1, 32.144289, -103.908513
09/05/2023

View of excavation facing southwest.



Site Photograph

ETCTP HS-1 Release Site.



View of excavation facing southwest.



View of excavation facing west.



Site Photograph

ETCTP HS-1 Release Site.



View of excavation facing northeast.



View of excavation facing north.



Site Photograph

ETCTP HS-1 Release Site.

GHD | Report for ETCTP | 12605700

Attachment C Sampling Notifications

Nate Reece

From: Ericson, Dean <Dean.Ericson@energyTransfer.com>
Sent: Monday, August 28, 2023 5:24 PM
To: Nobui, Jennifer, EMNRD
Cc: J.T. Murrey; Nate Reece
Subject: RE: nAPP2304144689 Sampling Notification

Jennifer,

Sampling notification for the HS-1 Remediation, Eddy County (32.144289 -103.908513) on Aug. 31st.

Any questions please call,

Thanks,



Dean D. Ericson
Sr. Environmental Specialist
ER/Waste/Water/Remediation
Energy Transfer
O: 817.302.9573
C: 432-238-2142



From: Ericson, Dean
Sent: Monday, April 3, 2023 10:28 AM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Cc: J.T. Murrey <JT.Murrey@ghd.com>; Nate Reece <Nate.Reece@ghd.com>; Boultinghouse, Stacy <Stacy.Boultinghouse@energytransfer.com>
Subject: nAPP2304144689 Sampling Event

Jennifer,

ETC will be ready to collect vertical and horizontal samples for the HS-1 Remediation, Eddy County (32.144289 - 103.908513) on Wed. April 5th. Please advised if NMOCD will be present to witness.

Any questions please call,

Thanks,



Dean D. Ericson
Sr. Environmental Specialist
ER/Waste/Water/Remediation
Energy Transfer
O: 817.302.9573
C: 432-238-2142



Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.

From: [Ericson, Dean](#)
To: [Nobui, Jennifer, EMNRD](#)
Cc: [J.T. Murrey](#); [Nate Reece](#)
Subject: RE: nAPP2304144689 Sampling Notification
Date: Sunday, September 10, 2023 6:59:18 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)

Jennifer,

Sampling notification for the HS-1 Remediation, Eddy County (32.144289 -103.908513) on 09/13/23

Any questions please call,

Thanks,



Dean D. Ericson
 Sr. Environmental Specialist
 ER/Waste/Water/Remediation
 Energy Transfer
O: 817.302.9573
C: 432-238-2142



From: Ericson, Dean
Sent: Monday, August 28, 2023 4:24 PM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Cc: J.T. Murrey <JT.Murrey@ghd.com>; Nate Reece <Nate.Reece@ghd.com>
Subject: RE: nAPP2304144689 Sampling Notification

Jennifer,

Sampling notification for the HS-1 Remediation, Eddy County (32.144289 -103.908513) on Aug. 31st.

Any questions please call,

Thanks,

Dean D. Ericson
 Sr. Environmental Specialist
 ER/Waste/Water/Remediation
 Energy Transfer
O: 817.302.9573
C: 432-238-2142



From: Ericson, Dean
Sent: Monday, April 3, 2023 10:28 AM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Cc: J.T. Murrey <JT.Murrey@ghd.com>; Nate Reece <Nate.Reece@ghd.com>; Boultinghouse, Stacy <Stacy.Boultinghouse@energytransfer.com>
Subject: nAPP2304144689 Sampling Event

Jennifer,

ETC will be ready to collect vertical and horizontal samples for the HS-1 Remediation, Eddy County (32.144289 -103.908513) on Wed. April 5th. Please advised if NMOCD will be present to witness.

Any questions please call,

Thanks,



Dean D. Ericson
Sr. Environmental Specialist
ER/Waste/Water/Remediation
Energy Transfer
O: 817.302.9573
C: 432-238-2142



Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.

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 269870

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 269870
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	11/22/2023