



## Proposed Remediation Plan

### F-16 Pipeline

Lea County, New Mexico

Latitude 32.254198 North Longitude 103.074614 West

Unit Letter "O", Section 35, Township 21 South, Range 37 East

**NMOCD Incident # nAPP2212446966**

Prepared By:

**IPS Inc.**

1612 W. Sanger  
Hobbs, NM 88240

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Project Manager

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May 17, 2022

New Mexico Energy, Minerals & Natural Resources

NMOCD District 1

C/O: Mike Bratcher & Robert Hamlet

1625 N French Drive

Hobbs, NM 88240

ETC Texas Pipeline, LTD.

600 N Marinefield St. Suite 700

Midland, Tx 79701

RE: Remediation Work Plan

ETC, Texas Pipeline

F-16 Pipeline

Latitude 32.254198 North Longitude 103.074614 West

Unit Letter" O", Section 35, Township 21 South, Range 37East

Lea County, New Mexico

**NMOCD Incident # nAPP2212446966**

Ingram Professional Services, INC, (IPS), on behalf of ETC Texas Pipeline, Ltd. Submits this *Proposed Remediation Work Plan* to the New Mexico Oil Conservation Division (NMOCD). This Report provides documentation of detailed sampling and proposed remedial actions to address the F-16 Pipeline release. This report serves as a condensed update on field activities undertaken at the afore referenced Site.



## Project Information

The site is in Unit Letter O (SW/SE), Section 35, Township 21 South, Range 37 East. The spill area covers approximately 5730 Sq ft of land owned by Geraldin Osborn and is approximately 1 mile east of Eunice, New Mexico. Site Map included, respectively. Latitude 32.254198 North, Longitude 103.074614 West

### 1.0 Background

On April 23, 2022, a release was discovered on the F-16 Pipeline. The release was attributed to an unknown cause. The pipeline segment releasing approximately 51.2 BBLS of pipeline liquid and 203.9 mcf of natural gas. Due to sandy soils, vac truck was not accessible and zero was recovered.

On April 24-26, 2022, IPS responded to the location for emergency scrap of the effected area to mitigate the vertical and horizontal extent of impact at the release point, 120 yards of heavily impacted material scraped and disposed at Sundance Disposal.

Previously Submitted games of NMOCD Form c-141 are available on the NMOCD imaging System. Remediation pages of the NMOCD Formc-141 are included as attachment. Topographic Map, OSE POD Locations Map, Delineation Map, and Proposed Excavation Map are included as Figure 1, Figure 2, Figure 3, and Figure 4, respectively.

### 2.0 NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) groundwater databases was completed to determine the horizontal distance to known water sources within a four hundred fifty feet of the release site, these wells are recovery/monitoring wells, the closest potable water source is over one thousand feet from release point. Probable ground water depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided in Attachment and the results are depicted on Figures

Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows.

**Table 1**

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
<b>48'</b>	Chloride (Cl-)	EPA 300.0 or SM4500 C1 B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8051M	-	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10



	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50
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\*Measured in Milligrams (mg/kg)

†Table 1, section 19.15.29.12 of the New Mexico Administrative code (NMAC)

‡The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D. (1) NMAC.

**Table 2**

Timeline of Spill Response Activities		
Date	Activity	Notes
4/23/22	Release occurs	
4/24/22-4/26/22	IPS Inc Conducts Initial Site Assessment	Mapped area preformed initial scrap of saturated soils
5/9/22-5/10/22	Delineation Process	Vertical & Horizontal Delineation sample, submitted to Cardinal Laboratory

**3.0 Delineation Activates**

On May 9-10, IPS Inc., conducted site assessment. During the initial assessment, a series of soil borings and trenches were advanced within the release margins to determine the vertical and horizontal extent of impacted soil of the affected area. The release was categorized in two parts (area 1) and (area 2). During the advancement of the soil bores and trenches, soil samples where collected, and field screened for the presence of volatile organic compounds via a photoionization detector (PID) and chloride concentrations utilizing a Hach Quantab® chloride test kit.

- **Area 1** – Based on field observations and field test data, IPS collected (17) Seventeen representative soil samples for laboratory analysis
  - Delineation soil samples represented by (V1 @ 4', 6', 8',10'), (H1 through H1.3 @ 4' H2 through H2.2 @ 4' H3 through H3.2 @ 4' H4 through H4.2 @ 4') (V2 Through V4 @ 3', 4'), (H5 @ 2' through H9



@ 2') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH or chloride concentrations were above the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

#### **4.0 Proposed Actions**

Based on the initial site assessment, and laboratory analytical results made during the initial site assessment, the following remediation activities are proposed to advance the site toward an approved closure.

- Based on PID readings, field chloride tests and laboratory result the site aeries to be delineated both horizontally and vertically apart from area 1 V1. A full delineation will be completed during final excavation activities.
- ETC respectfully proposes a total excavation depth of 12' bgs in the area represented by area 1.
- After excavating 12' bgs., confirmation vertical and horizontal samples will be collected and sent to the lab and test for Chloride, TPH, and BTEX are under NMOCD Closer Criteria reclamation standers.
- Based on PID readings, field chloride tests and laboratory result the site aeries to be delineated both horizontally and vertically apart from area 2 H5 @ 2' a full delineation will be completed during final excavation activates.
- The area represented as area 2 will be excavated to depths of 1' to 2' bgs or until laboratory results Chloride, TPH, BTEX are under NMOCD Closer Criteria reclamation standers.
- After excavation, conformation vertical and horizontal will be sent to a laboratory and be tested for Chlorides, TPH, and BTEX. All final conformation analytical results and remediation activities will be documented in the Request for Closure Report submitted after final remediation activates are completed.
- Excavated soils will be transported for disposal to a NMOCD permitted disposal facility



- Back fill will be sourced from native like material, clean soil, sourced locally from nearby area, approved by land owner.
- All area will be reseeded in the appropriate season with land owner approved seed mix
- A Request for Closure Report will be submitted detailing all remediation activities conducted in accordance with NMOCS.

Proposed excavation map is provided as figure 5, respectively.

### **5.0 Sample Plan:**

Upon completion of excavation activities, conformation five-point composite soil samples will be collected from the floor and sidewalls of the excavated area representing every 200 square feet.

### **Remediation Soil Volume:**

(Area 1) 60'X48'X12', with approximately 1,664 yds removed.

(Area 2) 190'X15'X2' with approximately 275 yds removed.

Remediation activities are expected to be completed within 90 days of receiving necessary approval of the Remediation Work Plan.

### **Restoration, Reclamation, and Re-Vegetation**

Based upon laboratory analytical results from conformation soil samples, the excavated areas will be backfilled with locally sourced clean, non-impacted "like" material placed at or near relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.



**Limitations:**

Ingram Professional Services, INC, has prepared this Site Assessment and Proposed Remediation Request to the best of its ability. No other warranty, expressed or implied, is made or intended. IPS has examined the relied upon documents referenced in the report and on oral statements made by certain individuals. IPS has not conducted an independent examination of the facts contained in referenced materials and statements. IPS has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. IPS notes that the facts and conditions referenced in this report may change over time, and the conditions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report. IPS has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants.

This report has been prepared for the benefit of ETC, Texas Pipeline Ltd. Use of the information contained in this report is prohibited with consent of Ingram Professional Services and/or ETC, Texas Pipeline, Ltd.

**Distribution:**

**ETC, Texas Pipeline Ltd.**

600 N Marinefeld St., Suite 700

**New Mexico Energy, Minerals and Nature Resources Department**

Oil Conservation Division, District 1

1625 N. French Drive

Hobbs, NM 88260



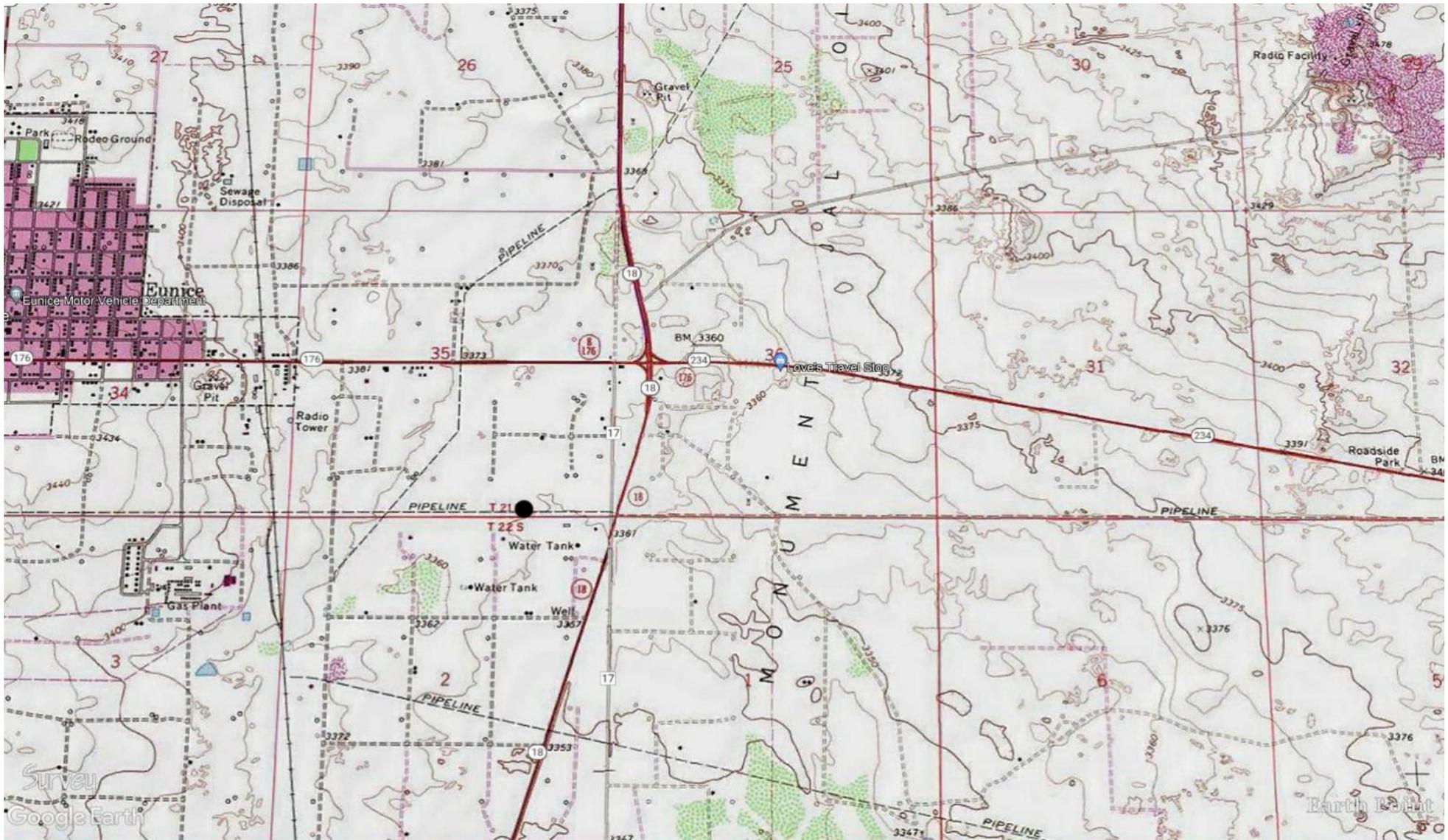
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## Figures

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Legend	OSE POD Locations Map	Figure 1
<ul style="list-style-type: none"><li>● F-16 Pipeline Location</li><li>● Water Well</li></ul>	<p>Site F-16 Pipeline GPS: 32.254554, -103.074169 Lea County</p>	



Legend	Topography Map	Figure 2
<ul style="list-style-type: none"> <li>● F-16 Site location</li> </ul>	<p>ETC Texas Pipeline, Ltd.            F-16 Pipeline            GPS: 32.254554, -103.074169            Lea County</p>	



Legend	Sample Location Map	Figure 3
 Delineation Sample Location Map	ETC Texas Pipeline, Ltd. F-16 Pipeline GPS: 32.254554, -103.074169 Lea County	



Legend	Sample Location Map	Figure 4
 Proposed Excavation Map	ETC Texas Pipeline, Ltd. F-16 Pipeline GPS: 32.254554, -103.074169 Lea County	

## **Table**

Sample Location	Sample Depth (BGS)	Sample Date	Soil Status	Method: EPA SW 846-8021B, 5030					Method: 8015M			Total TPH C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	E 300 Chloride (mg/Kg)
				Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl- Benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total Btex (mg/Kg)	Gro C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	Dro C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	EXT Dro C <sub>28</sub> -C <sub>35</sub> (mg/Kg)		
Area 1													
V1 4'	4'	5/10/2022	In-situ	0.1	2.94	5.89	21.2	30.13	<b>759</b>	<b>8750</b>	<b>3080</b>	<b>12589</b>	592
V1 6'	6'	5/10/2022	In-situ	0.5	13.1	22.2	<b>76.7</b>	<b>112.5</b>	<b>2860</b>	<b>1780</b>	82	<b>4722</b>	48
V1 8'	8'	5/10/2022	In-situ	0.5	9.25	17.4	<b>61.4</b>	<b>88.55</b>	<b>2280</b>	<b>1750</b>	<b>108</b>	<b>4138</b>	48
V1 10'	10'	5/10/2022	In-situ	1.07	18.1	15.1	<b>84.2</b>	<b>118.47</b>	<b>2890</b>	<b>1180</b>	85.6	<b>4155.6</b>	144
H1 4'	4'	5/10/2022	In-situ	0.649	17.5	28.4	<b>95.5</b>	<b>142.049</b>	<b>3060</b>	<b>1730</b>	73.8	<b>4863.8</b>	64
H1.1 4'	4'	5/10/2022	In-situ	1.16	20.2	25	<b>72.9</b>	<b>119.26</b>	<b>2030</b>	<b>868</b>	55.5	<b>2953.5</b>	160
H1.2 4'	4'	5/10/2022	In-situ	<b>23</b>	<b>184</b>	<b>151</b>	<b>382</b>	<b>740</b>	<b>12400</b>	<b>12800</b>	<b>2990</b>	<b>28190</b>	496
H1.3 4'	4'	5/10/2022	In-situ	0.05	0.191	0.099	0.204	0.544	10	10	10	30	160
H2 4'	4'	5/10/2022	In-situ	0.1	2.16	4.84	18.3	25.4	<b>770</b>	<b>8510</b>	<b>2680</b>	<b>11960</b>	576
H2.1 4'	4'	5/10/2022	In-situ	0.05	0.05	0.05	0.15	0.3	10	10	10	30	48
H2.2 4'	4'	5/10/2022	In-situ	0.05	0.05	0.05	0.15	0.3	10	10	10	30	48
H3 4'	4'	5/10/2022	In-situ	0.1	3	5.91	<b>51.7</b>	<b>60.71</b>	<b>786</b>	<b>8920</b>	<b>3110</b>	<b>12816</b>	<b>672</b>
H3.1 4'	4'	5/10/2022	In-situ	0.05	0.05	0.05	0.15	0.3	10	10	10	30	32
H3.2 4'	4'	5/10/2022	In-situ	0.05	0.05	0.05	0.15	0.3	10	10	10	30	32
H4 4'	4'	5/10/2022	In-situ	2.61	41.4	50	<b>148</b>	<b>242.01</b>	<b>3210</b>	<b>1110</b>	71.8	<b>4391.8</b>	160
H4.1 4'	4'	5/10/2022	In-situ	0.127	3.63	5.73	19.6	29.087	<b>586</b>	<b>567</b>	56.1	<b>1209.1</b>	160
H4.2 4'	4'	5/10/2022	In-situ	0.05	0.05	0.05	0.15	0.3	10	10	10	30	160
Area 2													
V2 2'	2'	5/10/2022	In-situ	0.05	0.05	0.05	0.15	0.3	10	10	10	30	352
v2 4'	4'	5/10/2022	In-situ	0.05	0.05	0.05	0.15	0.3	10	11.5	10	31.5	64
V3 2'	2'	5/10/2022	In-situ	0.05	0.05	0.05	0.15	0.3	10	10	10	30	144
V3 4'	4'	5/10/2022	In-situ	0.05	0.064	0.053	0.15	0.317	10	10.6	10	30.6	48
H5 2'	2'	5/10/2022	In-situ	0.05	0.05	0.05	0.15	0.3	10	<b>559</b>	<b>307</b>	<b>876</b>	144
H6 2'	2'	5/10/2022	In-situ	0.05	0.05	0.05	0.15	0.3	10	10	10	30	64
H7 2'	2'	5/10/2022	In-situ	0.05	0.05	0.05	0.15	0.3	10	10	10	30	48
H8 2'	2'	5/10/2022	In-situ	0.05	0.05	0.05	0.15	0.3	10	10	10	30	32
H9 2'	2'	5/10/2022	In-situ	0.05	0.05	0.05	0.15	0.3	10	10	10	30	16

# **Attachment I**

## **Site Photographs**



# Photographs





## Photographs

Photo: 3

Description: Release area.



Photo: 4

Description: Release area.



## Photographs

Photo: 5	Description: Emergency Scrape.
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Photo: 6	Description: Emergency Scrape.
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### Photographs



Photo: 7 | Description: Emergency Scrape.



Photo: 8 | Description: Emergency Scrape.





## Photographs

Photo: 9

Description: Emergency Scrape.



# **Attachment II**

## **Depth to Groundwater**

# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	POD basin	County	Q 6	Q 4	Q 16	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<a href="#">CP 00133 POD1</a>	CP	LE	2 2 4	35	21S	37E	676159	3590137*				80		
<a href="#">CP 00138 POD1</a>	CP	LE	3 2 2	35	21S	37E	675944	3590741*				70		
<a href="#">CP 00221 POD1</a>	CP	LE	2 1 3	35	21S	37E	674953	3590115*				290		
<a href="#">CP 00287 POD1</a>	CP	LE	3 1 2	35	21S	37E	675542	3590734*				75		
<a href="#">CP 01222 POD1</a>	CP	LE	2 2 2	35	21S	37E	676081	3591023				58	48	10
<a href="#">CP 01222 POD2</a>	CP	LE	2 2 2	35	21S	37E	676071	3591014				60	48	12
<a href="#">CP 01222 POD4</a>	CP	LE	2 2 2	35	21S	37E	676102	3591017				59	44	15
<a href="#">CP 01540 POD1</a>	CP	LE	1 1 1	35	21S	37E	674676	3590844				51	36	15

Average Depth to Water: **44 feet**  
 Minimum Depth: **36 feet**  
 Maximum Depth: **48 feet**

**Record Count:** 8

**PLSS Search:**

**Section(s):** 35      **Township:** 21S      **Range:** 37E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/17/22 4:28 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW  
4=SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 1	Se c	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<a href="#">CP 00427 POD1</a>	0	CP	LE	3	3	3	02	22S	37E	674787	3587906*	4900		
<a href="#">CP 00929 POD1</a>		CP	LE	3	3	3	02	22S	37E	674939	3587915	1100		
<a href="#">CP 01220 POD1</a>		CP	LE	1	2	02	22S	37E	675925	3589363		65	48	17
<a href="#">CP 01220 POD2</a>		CP	LE	1	2	02	22S	37E	675951	3589363		65	48	17

Average Depth to Water: **48 feet**  
 Minimum Depth: **48 feet**  
 Maximum Depth: **48 feet**

**Record Count:** 4

**PLSS Search:**

**Section(s): 2      Township: 22S      Range: 37E**

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/19/22 8:00 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

# **Attachment**

## **Laboratory Analytical Repots**



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

May 13, 2022

DEAN ERICSON  
ENERGY TRANSFER  
P. O. BOX 1226  
JAL, NM 88252 RE: F-

16

Enclosed are the results of analyses for samples received by the laboratory on 05/10/22 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original

chain-of-custody. If you have any questions concerning this report, please feel free to contact me. Sincerely,

Celey D. Keene  
Lab Director/Quality Manager

Fax To:

Received:	05/10/2022	Sampling Date:	05/10/2022
Reported:	05/13/2022 F-	Sampling Type:	Soil
Project Name:	16	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	32.4283568, -103.1301390		

**Sample ID: V 1 4' (H221979-01)**

BTEX 8021B			mg/kg				Analyzed By: MS\			S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	05/11/2022	ND	2.22	111	2.00	10.5		
<b>Toluene*</b>	<b>2.94</b>	0.100	05/11/2022	ND	2.21	110	2.00	11.2		
<b>Ethylbenzene*</b>	<b>5.89</b>	0.100	05/11/2022	ND	2.14	107	2.00	9.92		
<b>Total Xylenes*</b>	<b>21.2</b>	0.300	05/11/2022	ND	6.62	110	6.00	9.99		
<b>Total BTEX</b>	<b>30.0</b>	0.600	05/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 199 % 69.9-140

Chloride, SM4500Cl-B			mg/kg				Analyzed By: GM			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>592</b>	16.0	05/11/2022	ND	432	108	400	0.00		

TPH 8015M			mg/kg				Analyzed By: MS			S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>759</b>	50.0	05/12/2022	ND	181	90.6	200	3.21		
<b>DRO &gt;C10-C28*</b>	<b>8750</b>	50.0	05/12/2022	ND	193	96.7	200	0.148		
<b>EXT DRO &gt;C28-C36</b>	<b>3080</b>	50.0	05/12/2022	ND						

Surrogate: 1-Chlorooctane 210 % 66.9-136

Surrogate: 1-Chlorooctadecane 197 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V 1 6' (H221979-02)**

BTEX 8021B			mg/kg				Analyzed By: MS\			S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	05/12/2022	ND	2.22	111	2.00	10.5		
<b>Toluene*</b>	<b>13.1</b>	0.500	05/12/2022	ND	2.21	110	2.00	11.2		
<b>Ethylbenzene*</b>	<b>22.2</b>	0.500	05/12/2022	ND	2.14	107	2.00	9.92		

<b>Total Xylenes*</b>	<b>76.7</b>	1.50	05/12/2022	ND	6.62	110	6.00	9.99
<b>Total BTEX</b>	<b>112</b>	3.00	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 200 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	05/11/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2860</b>	10.0	05/12/2022	ND	181	90.6	200	3.21		
<b>DRO &gt;C10-C28*</b>	<b>1780</b>	10.0	05/12/2022	ND	193	96.7	200	0.148		
<b>EXT DRO &gt;C28-C36</b>	<b>82.0</b>	10.0	05/12/2022	ND						

Surrogate: 1-Chlorooctane 262 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

Fax To:

Received:	05/10/2022	Sampling Date:	05/10/2022
Reported:	05/13/2022 F-	Sampling Type:	Soil
Project Name:	16	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	32.4283568, -103.1301390		

**Sample ID: V 1 8' (H221979-03)**

BTEX 8021B		mg/kg		Analyzed By: MS\						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	05/12/2022	ND	2.22	111	2.00	10.5		
<b>Toluene*</b>	<b>9.25</b>	0.500	05/12/2022	ND	2.21	110	2.00	11.2		
<b>Ethylbenzene*</b>	<b>17.4</b>	0.500	05/12/2022	ND	2.14	107	2.00	9.92		

<b>Total Xylenes*</b>	<b>61.4</b>	1.50	05/12/2022	ND	6.62	110	6.00	9.99
<b>Total BTEX</b>	<b>88.1</b>	3.00	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 185 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	05/11/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2280</b>	10.0	05/12/2022	ND	181	90.6	200	3.21		
<b>DRO &gt;C10-C28*</b>	<b>1750</b>	10.0	05/12/2022	ND	193	96.7	200	0.148		
<b>EXT DRO &gt;C28-C36</b>	<b>108</b>	10.0	05/12/2022	ND						

Surrogate: 1-Chlorooctane 245 % 66.9-136

Surrogate: 1-Chlorooctadecane 127 % 59.5-142

Fax To:

Received:	05/10/2022	Sampling Date:	05/10/2022
Reported:	05/13/2022 F-	Sampling Type:	Soil
Project Name:	16	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	32.4283568, -103.1301390		

**Sample ID: V 1 10' (H221979-04)**

BTEX 8021B		mg/kg		Analyzed By: MS\						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>1.07</b>	0.500	05/12/2022	ND	2.22	111	2.00	10.5		
<b>Toluene*</b>	<b>18.1</b>	0.500	05/12/2022	ND	2.21	110	2.00	11.2		
<b>Ethylbenzene*</b>	<b>25.1</b>	0.500	05/12/2022	ND	2.14	107	2.00	9.92		

<b>Total Xylenes*</b>	<b>84.2</b>	1.50	05/12/2022	ND	6.62	110	6.00	9.99
<b>Total BTEX</b>	<b>129</b>	3.00	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 203 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>144</b>	16.0	05/11/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10*</b>	<b>2890</b>	10.0	05/12/2022	ND	181	90.6	200	3.21			
<b>DRO &gt;C10-C28*</b>	<b>1180</b>	10.0	05/12/2022	ND	193	96.7	200	0.148			
<b>EXT DRO &gt;C28-C36</b>	<b>85.6</b>	10.0	05/12/2022	ND							

Surrogate: 1-Chlorooctane 413 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V 2 2' (H221979-05)**

<b>BTEX 8021B</b>	<b>mg/kg</b>	<b>Analyzed By: MS\</b>
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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2022	ND	2.22	111	2.00	10.5	
Toluene*	<0.050	0.050	05/11/2022	ND	2.21	110	2.00	11.2	
Ethylbenzene*	<0.050	0.050	05/11/2022	ND	2.14	107	2.00	9.92	

Total Xylenes*	<0.150	0.150	05/11/2022	ND	6.62	110	6.00	9.99
Total BTEX	<0.300	0.300	05/11/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>352</b>	16.0	05/11/2022	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	05/12/2022	ND	181	90.6	200	3.21	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	193	96.7	200	0.148	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V 2 4' (H221979-06)**  
**BTEX 8021B** mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2022	ND	2.22	111	2.00	10.5	
Toluene*	<0.050	0.050	05/11/2022	ND	2.21	110	2.00	11.2	
Ethylbenzene*	<0.050	0.050	05/11/2022	ND	2.14	107	2.00	9.92	

Total Xylenes*	<0.150	0.150	05/11/2022	ND	6.62	110	6.00	9.99
Total BTEX	<0.300	0.300	05/11/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

**Chloride, SM4500CI-B mg/kg Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	05/11/2022	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	05/12/2022	ND	181	90.6	200	3.21	
<b>DRO &gt;C10-C28*</b>	<b>11.5</b>	10.0	05/12/2022	ND	193	96.7	200	0.148	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V 3 2' (H221979-07)**

**BTEX 8021B mg/kg Analyzed By: MS\**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2022	ND	2.22	111	2.00	10.5	
Toluene*	<0.050	0.050	05/11/2022	ND	2.21	110	2.00	11.2	
Ethylbenzene*	<0.050	0.050	05/11/2022	ND	2.14	107	2.00	9.92	

Total Xylenes*	<0.150	0.150	05/11/2022	ND	6.62	110	6.00	9.99
Total BTEX	<0.300	0.300	05/11/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	05/11/2022	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	05/12/2022	ND	181	90.6	200	3.21	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	193	96.7	200	0.148	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V 3 4' (H221979-08)**  
**BTEX 8021B** mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2022	ND	2.22	111	2.00	10.5	
<b>Toluene*</b>	<b>0.064</b>	0.050	05/11/2022	ND	2.21	110	2.00	11.2	
<b>Ethylbenzene*</b>	<b>0.053</b>	0.050	05/11/2022	ND	2.14	107	2.00	9.92	

Total Xylenes*	<0.150	0.150	05/11/2022	ND	6.62	110	6.00	9.99
Total BTEX	<0.300	0.300	05/11/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

<b>Chloride</b>	<b>48.0</b>	16.0	05/11/2022	ND	432	108	400	0.00
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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	05/12/2022	ND	181	90.6	200	3.21
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<b>DRO &gt;C10-C28*</b>	<b>10.6</b>	10.0	05/12/2022	ND	193	96.7	200	0.148
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EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND				
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Surrogate: 1-Chlorooctane 80.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.5 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 1 4' (H221979-09)**

BTEX 8021B		mg/kg		Analyzed By: MS\						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.649</b>	0.500	05/12/2022	ND	2.22	111	2.00	10.5		
<b>Toluene*</b>	<b>17.5</b>	0.500	05/12/2022	ND	2.21	110	2.00	11.2		
<b>Ethylbenzene*</b>	<b>28.4</b>	0.500	05/12/2022	ND	2.14	107	2.00	9.92		

<b>Total Xylenes*</b>	<b>95.5</b>	1.50	05/12/2022	ND	6.62	110	6.00	9.99
<b>Total BTEX</b>	<b>142</b>	3.00	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 213 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	05/11/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>3060</b>	10.0	05/12/2022	ND	181	90.6	200	3.21		
<b>DRO &gt;C10-C28*</b>	<b>1730</b>	10.0	05/12/2022	ND	193	96.7	200	0.148		
<b>EXT DRO &gt;C28-C36</b>	<b>73.8</b>	10.0	05/12/2022	ND						

Surrogate: 1-Chlorooctane 252 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

Fax To:

Received:	05/10/2022	Sampling Date:	05/10/2022
Reported:	05/13/2022 F-	Sampling Type:	Soil
Project Name:	16	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	32.4283568, -103.1301390		

**Sample ID: H 1.1 4' (H221979-10)**

BTEX 8021B		mg/kg		Analyzed By: MS\						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>1.16</b>	0.100	05/11/2022	ND	2.22	111	2.00	10.5		
<b>Toluene*</b>	<b>20.2</b>	0.100	05/11/2022	ND	2.21	110	2.00	11.2		
<b>Ethylbenzene*</b>	<b>25.0</b>	0.100	05/11/2022	ND	2.14	107	2.00	9.92		

<b>Total Xylenes*</b>	<b>72.9</b>	0.300	05/11/2022	ND	6.62	110	6.00	9.99
<b>Total BTEX</b>	<b>119</b>	0.600	05/11/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 430 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>160</b>	16.0	05/11/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10*</b>	<b>2030</b>	10.0	05/12/2022	ND	181	90.6	200	3.21			
<b>DRO &gt;C10-C28*</b>	<b>868</b>	10.0	05/12/2022	ND	193	96.7	200	0.148			
<b>EXT DRO &gt;C28-C36</b>	<b>55.5</b>	10.0	05/12/2022	ND							

Surrogate: 1-Chlorooctane 181 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

Fax To:

Received:	05/10/2022	Sampling Date:	05/10/2022
Reported:	05/13/2022 F-	Sampling Type:	Soil
Project Name:	16	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	32.4283568, -103.1301390		

**Sample ID: H 1.2 4' (H221979-11)**

BTEX 8021B		mg/kg		Analyzed By: MS\							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>Benzene*</b>	<b>23.0</b>	1.00	05/12/2022	ND	2.22	111	2.00	10.5			
<b>Toluene*</b>	<b>184</b>	1.00	05/12/2022	ND	2.21	110	2.00	11.2			
<b>Ethylbenzene*</b>	<b>151</b>	1.00	05/12/2022	ND	2.14	107	2.00	9.92			

<b>Total Xylenes*</b>	<b>382</b>	3.00	05/12/2022	ND	6.62	110	6.00	9.99
<b>Total BTEX</b>	<b>739</b>	6.00	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 192 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>496</b>	16.0	05/11/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10*</b>	<b>12400</b>	100	05/12/2022	ND	181	90.6	200	3.21			
<b>DRO &gt;C10-C28*</b>	<b>12800</b>	100	05/12/2022	ND	193	96.7	200	0.148			
<b>EXT DRO &gt;C28-C36</b>	<b>2990</b>	100	05/12/2022	ND							

Surrogate: 1-Chlorooctane 753 % 66.9-136

Surrogate: 1-Chlorooctadecane 205 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 1.3 4' (H221979-12)**

<b>BTEX 8021B</b>	<b>mg/kg</b>	<b>Analyzed By: MS\</b>
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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2022	ND	2.22	111	2.00	10.5	
<b>Toluene*</b>	<b>0.191</b>	0.050	05/11/2022	ND	2.21	110	2.00	11.2	
<b>Ethylbenzene*</b>	<b>0.099</b>	0.050	05/11/2022	ND	2.14	107	2.00	9.92	

<b>Total Xylenes*</b>	<b>0.204</b>	0.150	05/11/2022	ND	6.62	110	6.00	9.99
<b>Total BTEX</b>	<b>0.494</b>	0.300	05/11/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

**Chloride, SM4500Cl-B mg/kg Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	05/11/2022	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	05/12/2022	ND	181	90.6	200	3.21	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	193	96.7	200	0.148	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

Fax To:

Received:	05/10/2022	Sampling Date:	05/10/2022
Reported:	05/13/2022 F-	Sampling Type:	Soil
Project Name:	16	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	32.4283568, -103.1301390		

**Sample ID: H 4 4' (H221979-13)**

**BTEX 8021B mg/kg Analyzed By: MS\ S-04**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.61</b>	0.500	05/12/2022	ND	2.22	111	2.00	10.5	
<b>Toluene*</b>	<b>41.4</b>	0.500	05/12/2022	ND	2.21	110	2.00	11.2	
<b>Ethylbenzene*</b>	<b>50.0</b>	0.500	05/12/2022	ND	2.14	107	2.00	9.92	

<b>Total Xylenes*</b>	<b>148</b>	1.50	05/12/2022	ND	6.62	110	6.00	9.99
<b>Total BTEX</b>	<b>242</b>	3.00	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 228 % 69.9-140

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: GM</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	

<b>Chloride</b>	<b>160</b>	16.0	05/11/2022	ND	416	104	400	0.00
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<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>							<b>S-04</b>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		

<b>GRO C6-C10*</b>	<b>3210</b>	10.0	05/12/2022	ND	181	90.6	200	3.21
<b>DRO &gt;C10-C28*</b>	<b>1110</b>	10.0	05/12/2022	ND	193	96.7	200	0.148
<b>EXT DRO &gt;C28-C36</b>	<b>71.8</b>	10.0	05/12/2022	ND				

Surrogate: 1-Chlorooctane 298 % 66.9-136

Surrogate: 1-Chlorooctadecane 140 % 59.5-142

Fax To:

Received:	05/10/2022	Sampling Date:	05/10/2022
Reported:	05/13/2022 F-	Sampling Type:	Soil
Project Name:	16	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	32.4283568, -103.1301390		

**Sample ID: H 4.1 4' (H221979-14)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: MS\</b>							<b>S-04</b>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>Benzene*</b>	<b>0.127</b>	0.050	05/11/2022	ND	2.22	111	2.00	10.5			
<b>Toluene*</b>	<b>3.63</b>	0.050	05/11/2022	ND	2.21	110	2.00	11.2			
<b>Ethylbenzene*</b>	<b>5.73</b>	0.050	05/11/2022	ND	2.14	107	2.00	9.92			

<b>Total Xylenes*</b>	<b>19.6</b>	0.150	05/11/2022	ND	6.62	110	6.00	9.99
<b>Total BTEX</b>	<b>29.1</b>	0.300	05/11/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 390 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	05/11/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>586</b>	10.0	05/12/2022	ND	181	90.6	200	3.21		
<b>DRO &gt;C10-C28*</b>	<b>567</b>	10.0	05/12/2022	ND	193	96.7	200	0.148		
<b>EXT DRO &gt;C28-C36</b>	<b>56.1</b>	10.0	05/12/2022	ND						

Surrogate: 1-Chlorooctane 141 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 4.2 4' (H221979-15)**

<b>BTEX 8021B</b>	<b>mg/kg</b>	<b>Analyzed By: MS\</b>
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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2022	ND	2.22	111	2.00	10.5	
Toluene*	<0.050	0.050	05/11/2022	ND	2.21	110	2.00	11.2	
Ethylbenzene*	<0.050	0.050	05/11/2022	ND	2.14	107	2.00	9.92	

Total Xylenes*	<0.150	0.150	05/11/2022	ND	6.62	110	6.00	9.99
Total BTEX	<0.300	0.300	05/11/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	05/11/2022	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	05/12/2022	ND	181	90.6	200	3.21	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	193	96.7	200	0.148	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

Fax To:

Received:	05/10/2022	Sampling Date:	05/10/2022
Reported:	05/13/2022 F-	Sampling Type:	Soil
Project Name:	16	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	32.4283568, -103.1301390		

**Sample ID: H 3 4' (H221979-16)**

BTEX 8021B		mg/kg		Analyzed By: MS\						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	05/12/2022	ND	2.22	111	2.00	10.5		
<b>Toluene*</b>	<b>3.00</b>	0.100	05/12/2022	ND	2.21	110	2.00	11.2		
<b>Ethylbenzene*</b>	<b>5.91</b>	0.100	05/12/2022	ND	2.14	107	2.00	9.92		

<b>Total Xylenes*</b>	<b>21.7</b>	0.300	05/12/2022	ND	6.62	110	6.00	9.99
<b>Total BTEX</b>	<b>30.6</b>	0.600	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 202 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>672</b>	16.0	05/11/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10*</b>	<b>786</b>	50.0	05/12/2022	ND	181	90.6	200	3.21			
<b>DRO &gt;C10-C28*</b>	<b>8920</b>	50.0	05/12/2022	ND	193	96.7	200	0.148			
<b>EXT DRO &gt;C28-C36</b>	<b>3110</b>	50.0	05/12/2022	ND							

Surrogate: 1-Chlorooctane 309 % 66.9-136

Surrogate: 1-Chlorooctadecane 355 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 3.1 4' (H221979-17)**

<b>BTEX 8021B</b>	<b>mg/kg</b>	<b>Analyzed By: MS\</b>
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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2022	ND	2.22	111	2.00	10.5	
Toluene*	<0.050	0.050	05/11/2022	ND	2.21	110	2.00	11.2	
Ethylbenzene*	<0.050	0.050	05/11/2022	ND	2.14	107	2.00	9.92	

Total Xylenes*	<0.150	0.150	05/11/2022	ND	6.62	110	6.00	9.99
Total BTEX	<0.300	0.300	05/11/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	05/11/2022	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	05/12/2022	ND	181	90.6	200	3.21	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	193	96.7	200	0.148	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 3.2 4' (H221979-18)**

<b>BTEX 8021B</b>	<b>mg/kg</b>	<b>Analyzed By: MS\</b>
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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2022	ND	2.11	105	2.00	1.84	
Toluene*	<0.050	0.050	05/12/2022	ND	2.08	104	2.00	2.24	
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	2.04	102	2.00	2.30	

Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.29	105	6.00	2.18
Total BTEX	<0.300	0.300	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

<b>Chloride</b>	<b>32.0</b>	16.0	05/11/2022	ND	416	104	400	0.00
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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	05/12/2022	ND	181	90.6	200	3.21
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	193	96.7	200	0.148
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND				

Surrogate: 1-Chlorooctane 92.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 2 4' (H221979-19)**

BTEX 8021B		mg/kg		Analyzed By: MS\						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	05/12/2022	ND	2.11	105	2.00	1.84		
<b>Toluene*</b>	<b>2.16</b>	0.100	05/12/2022	ND	2.08	104	2.00	2.24		
<b>Ethylbenzene*</b>	<b>4.84</b>	0.100	05/12/2022	ND	2.04	102	2.00	2.30		

<b>Total Xylenes*</b>	<b>18.3</b>	0.300	05/12/2022	ND	6.29	105	6.00	2.18
<b>Total BTEX</b>	<b>25.3</b>	0.600	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 194 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>576</b>	16.0	05/11/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>770</b>	50.0	05/12/2022	ND	181	90.6	200	3.21		
<b>DRO &gt;C10-C28*</b>	<b>8510</b>	50.0	05/12/2022	ND	193	96.7	200	0.148		
<b>EXT DRO &gt;C28-C36</b>	<b>2680</b>	50.0	05/12/2022	ND						

Surrogate: 1-Chlorooctane 221 % 66.9-136

Surrogate: 1-Chlorooctadecane 197 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 2.1 4' (H221979-20)**

<b>BTEX 8021B</b>	<b>mg/kg</b>	<b>Analyzed By: MS\</b>
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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2022	ND	2.11	105	2.00	1.84	
Toluene*	<0.050	0.050	05/12/2022	ND	2.08	104	2.00	2.24	
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	2.04	102	2.00	2.30	

Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.29	105	6.00	2.18
Total BTEX	<0.300	0.300	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	05/11/2022	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	05/12/2022	ND	218	109	200	8.65	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 2.2 4' (H221979-21)**  
**BTEX 8021B** mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2022	ND	2.11	105	2.00	1.84	
Toluene*	<0.050	0.050	05/12/2022	ND	2.08	104	2.00	2.24	
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	2.04	102	2.00	2.30	

Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.29	105	6.00	2.18
Total BTEX	<0.300	0.300	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	05/11/2022	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	05/12/2022	ND	218	109	200	8.65	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 5 2' (H221979-22)**  
**BTEX 8021B** mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2022	ND	2.11	105	2.00	1.84	
Toluene*	<0.050	0.050	05/12/2022	ND	2.08	104	2.00	2.24	
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	2.04	102	2.00	2.30	

Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.29	105	6.00	2.18
Total BTEX	<0.300	0.300	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	05/11/2022	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	05/13/2022	ND	218	109	200	8.65	
<b>DRO &gt;C10-C28*</b>	<b>559</b>	10.0	05/13/2022	ND	211	105	200	10.8	
<b>EXT DRO &gt;C28-C36</b>	<b>307</b>	10.0	05/13/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 6 2' (H221979-23)**  
**BTEX 8021B** mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2022	ND	2.11	105	2.00	1.84	
Toluene*	<0.050	0.050	05/12/2022	ND	2.08	104	2.00	2.24	
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	2.04	102	2.00	2.30	

Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.29	105	6.00	2.18
Total BTEX	<0.300	0.300	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	05/11/2022	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	05/12/2022	ND	218	109	200	8.65	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 7 2' (H221979-24)**  
**BTEX 8021B** mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2022	ND	2.11	105	2.00	1.84	
Toluene*	<0.050	0.050	05/12/2022	ND	2.08	104	2.00	2.24	
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	2.04	102	2.00	2.30	

Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.29	105	6.00	2.18
Total BTEX	<0.300	0.300	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/11/2022	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	05/12/2022	ND	218	109	200	8.65	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 8 2' (H221979-25)**  
**BTEX 8021B** mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2022	ND	2.11	105	2.00	1.84	
Toluene*	<0.050	0.050	05/12/2022	ND	2.08	104	2.00	2.24	
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	2.04	102	2.00	2.30	

Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.29	105	6.00	2.18
Total BTEX	<0.300	0.300	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	05/11/2022	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	05/12/2022	ND	218	109	200	8.65	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 96.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

Fax To:

Received: 05/10/2022  
 Reported: 05/13/2022 F-  
 Project Name: 16  
 Project Number: NOT GIVEN  
 Project Location: 32.4283568, -103.1301390

Sampling Date: 05/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 9 2' (H221979-26)**  
**BTEX 8021B** mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2022	ND	2.11	105	2.00	1.84	
Toluene*	<0.050	0.050	05/12/2022	ND	2.08	104	2.00	2.24	
Ethylbenzene*	<0.050	0.050	05/12/2022	ND	2.04	102	2.00	2.30	

Total Xylenes*	<0.150	0.150	05/12/2022	ND	6.29	105	6.00	2.18
Total BTEX	<0.300	0.300	05/12/2022	ND				

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>16.0</b>	16.0	05/11/2022	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	05/12/2022	ND	218	109	200	8.65		
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	211	105	200	10.8		
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND						

Surrogate: 1-Chlorooctane 98.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

### Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
  - S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
  - 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
-



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

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

Company Name: <b>ETC</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: <b>Jody Walters</b>		P.O. #:			
Address:		Company:			
City:		Attn:			
State:		Address:			
Zip:		City:			
Phone #:		State:			
Fax #:		Zip:			
Project #:		Project Owner:			
Project Name: <b>F-16</b>		Phone #:			
Project Location: <b>32.4283568, -103.136139D</b>		Fax #:			
Sampler Name: <b>Jody Walters</b>		PRESERV:			
FOR LAB USE ONLY		SAMPLING			
		MATRIX			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER:			
		ACID/BASE:			
		ICE / COOL			
		OTHER:			
Lab I.D. <b>AD2979</b>		Sample I.D.			
1		V1 4'		DATE	
2		V1 6'		TIME	
3		V1 8'		5-10-22	
4		V1 10'		1:30	
5		V2 2'			
6		V2 4'			
7		V3 2'			
8		V3 4'			
9		H1 4'			
10		H1 4'			
<p><small>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>					
Relinquished By: <i>[Signature]</i>		Date: <b>5-10-22</b>		Received By: <i>[Signature]</i>	
Relinquished By: <i>[Signature]</i>		Date: <b>5-10-22</b>		Received By: <i>[Signature]</i>	
Delivered By: (Circle One)		Observed Temp. °C <b>33</b>		Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <b>27</b>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
				Checked By: <i>[Signature]</i>	
				(Initials)	
				Turnaround Time: <b>WBS #E-22012-GL-213DD174</b>	
				Standard <input checked="" type="checkbox"/> Add'l Phone #:	
				Bacteria (only) <input checked="" type="checkbox"/>	
				Cool Intact <input checked="" type="checkbox"/>	
				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
				Corrected Temp. °C	

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





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>ETC</b>		P.O. #:		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>					
Project Manager: <b>Jody Walters</b>		Company:									
Address:		Attn:									
City:		Address:									
Phone #:		City:									
Project #:		State:									
Project Name: <b>F-116</b>		Zip:									
Project Location: <b>32.4283568, -103.130139D</b>		Phone #:									
Sampler Name: <b>Jody Walters</b>		Fax #:									
FOR LAB USE ONLY		PRESERV.		SAMPLING							
Lab I.D.		Sample I.D.									
H201979		H1.2 4'		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER			
11		H1.3 4'						WASTEWATER			
12		H4 4'						SOIL			
13		H4.1 4'						OIL			
14		H4.2 4'						SLUDGE			
15		H3 4'						OTHER:			
16		H3.1 4'						ACID/BASE:			
17		H3.2 4'						ICE / COOL			
18		H2 4'						OTHER:			
19		H2.1 4'						DATE			
20								TIME			
								5/10/22		1:30	
								CL			
								TPH EXT			
								BTEX			







**Attachment IV**  
**NMOCD Form C-141 Remediation Pages**



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	nAPP2212446966
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: ETC Texas Pipeline, Ltd.	OGRID: 371183
Contact Name: Carolyn Blackaller	Contact Telephone: (432) 203-8920
Contact email: <a href="mailto:Carolyn.blackaller@energytransfer.com">Carolyn.blackaller@energytransfer.com</a>	Incident # (assigned by OCD)
Contact mailing address: 600 N. Marienfeld St., Suite 700, Midland, TX 79701	

### Location of Release Source

Latitude 32.4283568 Longitude -103.130139  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name: F-16	Site Type: Pipeline
Date Release Discovered: 4/23/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
O	S35	T21S	R37E	Lea

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): 203.9 mcf	Volume Recovered (Mcf): 0 mcf
<input checked="" type="checkbox"/> Other (describe) pipeline liquids	Volume/Weight Released (provide units) 51.2 bbl	Volume/Weight Recovered (provide units) 0 bbl

Cause of Release: The release was attributed to an unknown cause.



Form C-141

State of New Mexico  
Oil Conservation Division

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Incident ID	nAPP2212446966
District RP	
Facility ID	
Application ID	

### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	48 (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 <b>not</b> 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 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Form C-141

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Dean D. Ericson Title: Sr. Environmental Specialist

Signature: Dean D. Ericson Date: 060322

email: dean.ericson@energytransfer.com Telephone: 432-238-2124

**OCD Only**

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

Form C-141

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State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

### Remediation Plan

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

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

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

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

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

Printed Name: Dean D. Ericson Title: Sr. Environmental Specialist  
 Signature: Dean D. Ericson Date: 060322  
 email: dean.ericson@energytransfer.com Telephone: 432-238-2124

**OCD Only**

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

- Approved     Approved with Attached Conditions of Approval     Denied     Deferral Approved

Signature: Jennifer Nobui Date: 06/07/2022

Form C-141

State of New Mexico  
Oil Conservation Division

Page 6

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Carolyn Blackaller Title: Sr. Environmental Specialist

Signature: \_\_\_\_\_ Date: 1/25/2021

email: Carolyn.blackaller@energytransfer.com Telephone: (432) 203-8920

**OCD Only**

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

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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

<b>Liquid Spill</b>		<input type="checkbox"/> Secondary Containment with Liner	
<b>Enter Numbers Only</b>			
Length of Spill Area (ft):	230.0	Est. Liquid Vol. (bbls):	15.37649
Width of Spill Area (ft):	65.0	Porosity Factor (soil type):	Clay
Depth of Spill Area (ft):	0.4	Vol. of Oil Released (bbls):	15.37649
% Oil in Liquid:	30.0	Vol. of Water Released (bbls):	35.87847
Amount Recovd. (bbls):	0.0	Impacted Soil Vol (ft3):	19.380

<b>Gas Release Calc. (Leak, Relief Vlv, etc.)</b>			
Hole or Rip/Gouge?:	Hole	Specific Gravity:	0.750
Length (in inches):		Pipeline Diameter:	16.000
Width (in inches):		Equivalent Diameter:	0.250
Diameter (in inches):	0.250	Release Rate (MCF/Hour):	2.8
Pressure (psig):	40.0		
Temperature (Deg F):	67.0	<b>Gas Release (Mcf):</b>	<b>203.9</b>

**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 113660

**CONDITIONS**

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 113660
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved.	6/7/2022