Site Assessment and Remediation Work Plan

ETC Texas Pipeline, LLC
Trunk M
Lea County, New Mexico
Unit Letter A, Section 13, Township 22 South, Range 36 East
Latitude 32.396842 North, Longitude 103.211077 West
NMOCD Incident No.: nAPP2209040079

Prepared For:

ETC Texas Pipeline, Ltd.
600 N. Marienfeld St. Suite 700
Midland, Tx 79701

Prepared By:

Haz Mat Special Services
1816 S Eunice Hwy
Hobbs, NM 88240

May 2022

Lindsey Nevels
Operations Manager
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1.0 PROJECT INFORMATION

Haz Mat Special Services, LLC, (HMSS), 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 Trunk M Pipeline release. This report serves as a condensed update on field activities undertaken at the afore referenced Site.

Location of Release Source

Latitude: 32.396842 Longitude: -103.211077

Provided GPS are in WGS84 format.

Site Name:	Trunk M	Site Type:	Pipeline
Date Release Discovered:	3/25/2022	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
A	13	22S	36E	Lea

Surface Owner: [X] State [ ] Federal [ ] Tribal [ ] Private (Name _____)

Nature and Volume of Release

[ ] Crude Oil	Volume Released (bbl.)	Volume Recovered (bbl.)
[ ] Produced Water	Volume Released (bbl.)	Volume Recovered (bbl.)
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	[ ] Yes [X] No [ ] N/A
[ ] Condensate	Volume Released (bbl.)	Volume Recovered (bbl.)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[X] Other (describe) [atural Gas w/ Liqui	Volume/Weight Released 17.36	Volume/Weight Recovered 110 bbl

Cause of Release:
The release was attribute to corrosion of the pipeline segment.

Initial Response

- [X] The source of the release has been stopped.
- [X] The impacted area has been secured to protect human health and the environment.
- [X] Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- [X] All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 NMOCD Site Classification

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

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

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; Topographic Map, OSE Pod Locations Map, and USGS Well Locations Map, Delineation Map / Proposed Excavation Depth Map are included as Figure 1, Figure 2, Figure 3, Figure 4, respectively.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	**Constituent**	**Method**	**Limit**
>100	Chloride	EPA 300.0 or SM4500 Cl B	20000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	N/A mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 DELINEATION ACTIVITIES

On April 12, 2022, Haz Mat Special Services conducted an initial site assessment. During the initial site assessment, a series of mechanical soil bores were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and/or concentrations of chloride utilizing La Motte titration method. and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

A "Site & Sample Location Map" is provided as Figure 4. Field data and soil profile logs, if applicable, are provided as Attachment I.

Based on field observations and field test data, forty -four (44) delineation soil samples (SP1 POI through SP8) were submitted to the laboratory for analysis of BTEX, TPH and/or Chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria with the exception of SP1 POI and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Attachment III.

5.0 PROPOSED ACTIONS

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, ETC Texas Pipeline, Ltd. proposes the following remediation activities designed to advance the Site toward an approved closure:

•Utilizing mechanical equipment, excavate area represented by SP1 POI to approximately 17'bgs. or until laboratory analytical results indicated BTEX, TPH or chloride concentrations are below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard. A vertical delination sample will be obtained after excavation in accordance with NMOCD Closure criteria.

•Areas represent by SP2, SP3, SP4, SP5, SP7, and SP8 will be excavated to approximately 1' to 2' Bgs or until laboratory analytical results indicate BTEX, TPH or chloride concentrations are below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.

•SP6 will be excavated to approximately 5'bgs. or until laboratory analytical results indicate BTEX, TPH or chloride concentrations are below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.

•Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted "like" material.

6.0 SAMPLING PLAN

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

7.0 ESTIMATED TIMELINE AND REMEDIATION SOIL VOLUME

Remediation activities are expected to be completed within 90 days of receiving necessary approval(s) of the Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately 4,000 cubic yards is in need of removal. The release area measures approximately 38,000 sq ft.

8.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original 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 during the first favorable growing season following closure of the site.

9.0 LIMITATIONS

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

This report has been prepared for the benefit of ETC Texas Pipeline, Ltd.. Use of the information contained in this report is prohibited without the consent of Haz Mat Special Services and/or ETC Texas Pipeline, Ltd..

10.0 DISTRIBUTION

ETC, Texas Pipeline Ltd.
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Midland, Tx 79701

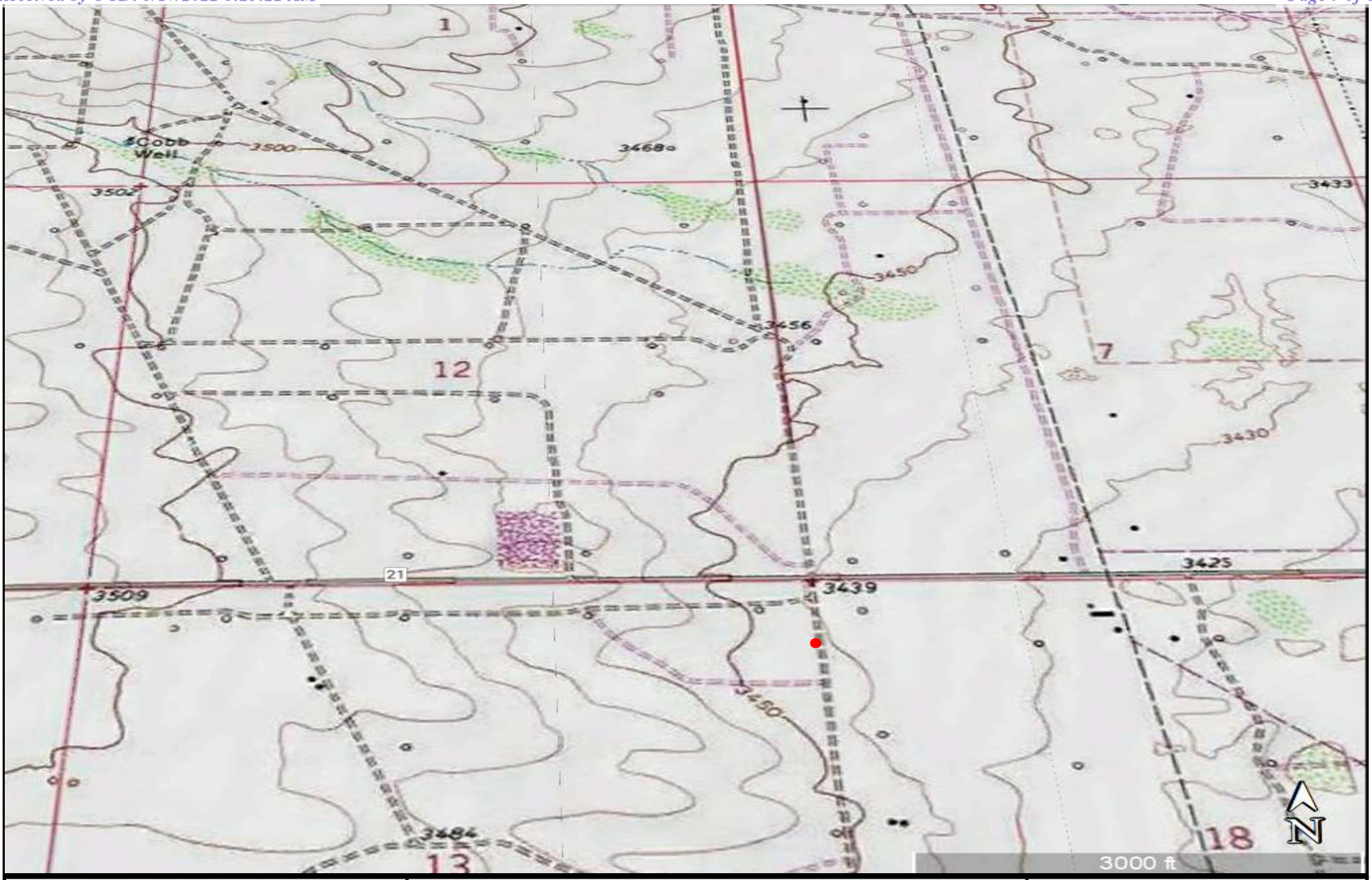
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
811 S. First Street
Artesia, NM 88210

Hobbs Field Office
New Mexico State Land Office
2827 North Dal Paso Street
Suite 117
Hobbs, NM 88240

(Electronic Submission)

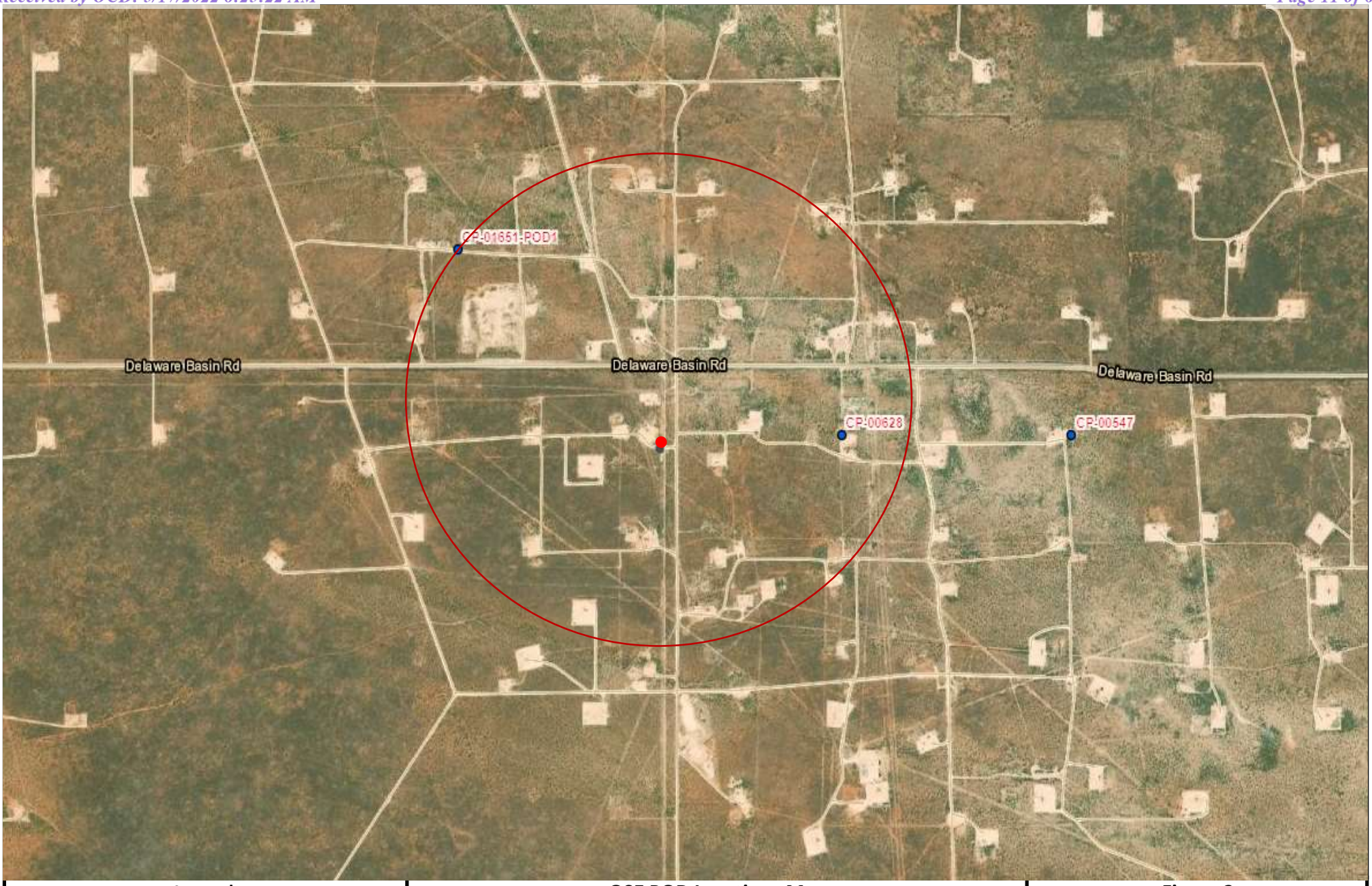
Figure 1
Topographic Map

Figure 1
Topographic Map



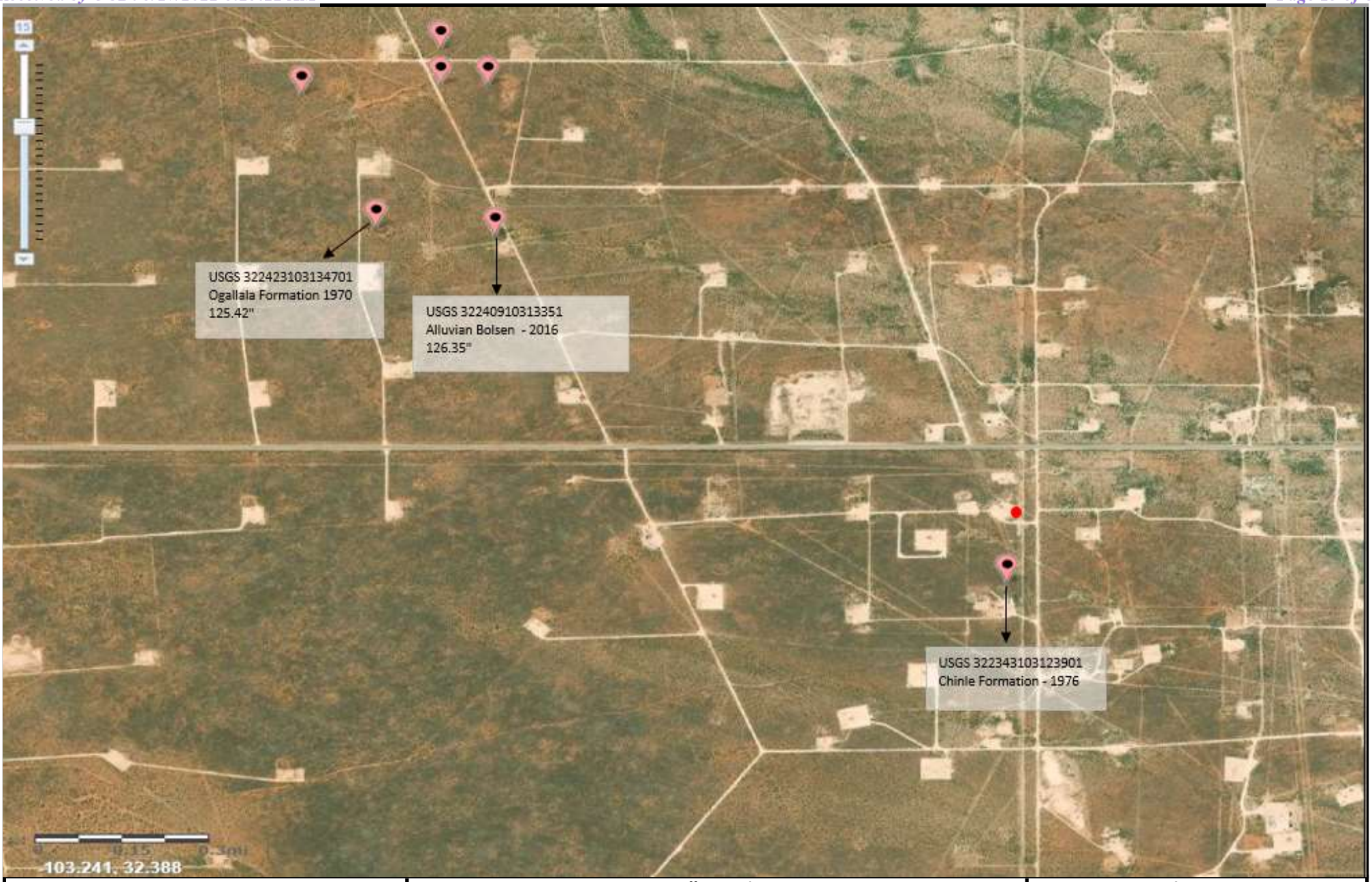
Legend	Topography Map	Figure 1
● Trunk M Location	ETC, Texas Pipeline. Ltd. Trunk M GPS: 32.396842, -103.211077 Lea County	

Figure 2
OSE Map



Legend:	OSE POD Locations Map	Figure 2
Trunk M Location Active OSE Water Well Soil Bore .5 mile Radius	ETC Texas Pipeline, Ltd. Trunk M GPS: 32.396842, -103.211077 Lea County	HAZ MAT SPECIAL SERVICES

Figure 3
USGS Map



Legend:	USGS Well Locations Map	Figure 3
• Trunk M Location	ETC Texas Pipeline, Ltd. Trunk M GPS: 32.396842, -103.211077 Lea County	

Figure 4
Delineation Sample Location Map/ Proposed Excavation Depths

Legend:	Delineation Sample Location Map/ Proposed Excavation Depth	Figure 4
Release Area SP1 Delineation Sample Location 2' Proposed Excavation Depths	ETC Texas Pipeline, Ltd. Trunk M GPS: 32.396842, -103.211077	

Table 1
Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
ETC Texas Pipeline, Ltd.
NMOCD Ref. #: nAPP2209040079

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
SP1 -POI	4/20/22	6'	In-Situ	<0.050	<0.300	<10.0	**92.3**	**92.3**	**10**	**102.3**	**1,800**
	4/20/22	8'	In-Situ	<0.050	<0.300	<10.0	177	**177**	87	**264.4**	1010
	4/20/22	10'	In-Situ	<0.050	<0.300	<10.0	**194**	**194**	**92.2**	**286.2**	**2,400**
	4/20/22	12'	In-Situ	<0.050	<0.300	<10.0	106	**106**	29	**135.3**	3600
	4/20/22	14'	In-Situ	0.133	20	273	**2040**	**2313**	**403**	**2,716.0**	**4,960**
	4/20/22	16'	In-Situ	<0.050	20.1	244	2,010	**2254**	341	**2,595.0**	2760
SW POI North	4/20/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
	4/20/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
SW POI East	4/20/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
	4/20/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW POI South	4/20/22	Surf	In-Situ	<0.050	<0.300	<10.0	12.2	12.2	<10.0	12.2	160
	4/20/22	2'	In-Situ	<0.050	<0.300	<10.0	24.6	24.6	<10.0	24.6	160
SW POI West	4/20/22	Surf	In-Situ	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	256
	4/20/22	1'	In-Situ	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	256
SP 2	4/13/22	Surf	In-Situ	<0.050	0.719	47.3	**1,110**	1157.30	**225**	**1,382.3**	**3,760**
	4/13/22	4'	In-Situ	<0.050	<0.300	<10.0	**<10.0**	<10.0	10	10.0	272
SP 3	4/13/22	Surf	In-Situ	<0.200	28.8	1170	7,190	8360	1150	9,510.0	**2,360**
	4/13/22	2' R	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
SP 4	4/13/22	Surf	In-Situ	<0.050	0.727	**10.2**	**393**	**403.2**	**142**	**545.2**	**2,240**
	4/13/22	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
SP5	4/13/22	Surf	In-Situ	<0.200	2.96	194	8550	8744	1680	10424	**8,720**
	4/13/22	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SP6	4/13/22	Surf	In-Situ	<0.050	2.95	**352**	**10,200**	**10552**	**2,060**	**12,612.0**	**4,960**
	4/13/22	4'	In-Situ	<0.050	<0.300	<10.0	140	140	27.4	**167.4**	**480**
SP7	4/13/22	Surf	In-Situ	<0.050	13.1	1040	29700	30740	6080	**36,820.0**	**4,800**
	4/13/22	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SP8	4/13/22	Surf	In-Situ	<0.050	16.3	529	**9,350**	**9879**	**1940**	**11,819.0**	**6,930**
	4/13/22	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
H 21 (HZ 1)	4/13/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	4/13/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
H 22 (HZ 2)	4/13/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
	4/13/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
H 23 (HZ 3)	4/13/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
	4/13/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16
H 24 (HZ 4)	4/13/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16
	4/13/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16
H 25 (HZ 5)	4/13/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
	4/13/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16

NOTES:
- = Sample not analyzed for that constituent.
Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
ETC Texas Pipeline, Ltd.

NMOCD Ref. #: nAPP2209040079

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
H 26 (HZ 6)	4/13/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16
	4/13/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16
H 27 (HZ 7)	4/13/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
	4/13/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
H 28 (HZ 8)	4/13/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
	4/13/22	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192

NOTES:
- = Sample not analyzed for that constituent.
Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment 1
Site Photographs: Field Data: Soil Profile

Photographs

Photo: 1	Description: Release Area

Photo: 2	Description: Release area.

Project: T... ...k m

Date: 4-20-22

Latitude: 0

Longitude: 0

Sampler: Kyle Garcia

Sample ID	Depth	PID/Odor	Chloride	GPS
SP1 PoI	6'	58.2	396 X4= 1,584	Lab - 4220
SP1 PoI	8'	118	323 X4= 1,292	Lab 4-20
SP1 PoI	10'	104	225 X4= 900	Lab 4-20
SP1 PoI	12'	112	646 X4= 2,584	lab 4-20
SP1 PoI	14'	391	1,056 X4= 4,224	lab 4-20
SP1 PoI	16'	799	646 X4= 2,584	lab 4-20
Sw PoI South	Surface	.7	34 X4= 136	lab 4-20
Sw PoI South	1'	.9	40 X4= 160	lab 4-20
Sw PoI South	2'	0	29 X4= 116	lab 4-20
Sw PoI North	Surface	12.2	29 X4= 116	lab 4-20
Sw PoI North	1'	3.8	29 X4= 116	lab 4-20
Sw PoI West	Surface	0	40 X4= 160	lab 4-20
Sw PoI West	1'	0	40 X4= 160	lab 4-20
Sw PoI East	Surface	0	40 X4= 160	lab 4-20
Sw PoI East	1'	0	40 X4= 160	lab 4-20

Spl- hot 4' (over by 1/2)

	Depth	PID/Odor	Chloride	
Point of release	4'		323 X4 = 1,292	IAb 4-13-22
POT	6'		61 X4 = 244	
POT	8'		70 X4 = 280	
SP2 surface	surface	odor	538 X4 = 2,552	IAb 4-13-22
SP2	2'	odor	45 X4 = 180	
SP2	4'		45 X4 = 180	IAb 4-13-22
SP3 surface	surface	odor	315 X4 = 1,260	IAb 4-13-22
SP3	~~4~~ 2'		89 X4 = 356	IAb 4-13-22
SP3	4'		Refusal	
SP4 surface	surface	odor	204 X4 = 816	IAb 4-13-22
SP4	2'		88 X4 = 352	
SP4	4'		40 X4 = 160	IAb 4-13-22
SP5 surface	surface	odor	2124 X4 = 8,496	IAb 4-13-22
SP5	2'		40 X4 = 160	
SP5	4'		79 X4 = 316	IAb 4-13-22
SP6 surface	surface	odor	1,818 X4 = 7,272	IAb 4-13-22
SP6	2'		110 X4 = 440	
SP6	4'		79 X4 = 316	IAb 4-13-22
SP7 surface	surface	odor	1236 X4 = 4,944	IAb 4-13-22
SP7	2'		88 X4 = 352	
SP7	4'		61 X4 = 244	IAb 4-13-22
SP8 surface	surface		~~13 X4~~ 1,236 X4 = 4,944	IAb 4-13-22
SP8	2'		29 X4 = 116	
SP8	4'		29 X4 = 116	IAb 4-13-22
Sidewall ~~1st~~ 2ed	2'		29 X4 = 116	
Sw1	2'		29 X4 = 116	IAb 4-13-22
Sw2	2'		29 X4 = 116	
Sw2	2'		29 X4 = 116	IAb 4-13-22
Sw3 1st	2'		29 X4 = 116	
Sw3 2ed	2'		29 X4 = 116	IAb 4-13-22
Sw4 1st	2'		29 X4 = 116	
Sw4 2ed	2'		29 X4 = 116	IAb 4-13-22
Sw5 1st	2'		29 X4 = 116	
Sw5 2ed	2'		29 X4 = 116	IAb 4-13-22
Sw6 1st	2'		29 X4 = 116	
Sw6 2ed	2'		29 X4 = 116	IAb 4-13-22

Sample Point = SP1 @ ## etc

Horizontal = HZ1 etc

Refusal = SP1 @ 4'-R

Test Trench = TT1 @ ##

Resamples= SP1b @ 5' or SW #1b

Stockpile = Stockpile #1

Site Diagram

Sample ID	Depth	odor	Chloride
SW 7	1st		47 X4=188
SW 7	2nd		40 X4=160 LAB 4-13-22
SW 8	1st		29 X4=116
SW 8	2nd		29 X4=116 LAB 4-13-22
PoI SW	N		
PoI SW			
PoI SW			
PoI SW			
PoI	10'		225X4=900
PoI	12'		134X4=536
PoI	14'		X4=
PoI			LAB 4-13-22

Notes:

~Length: ~Width: ~Area: ~Depth:

	Yes	No
ffected area?	☐	☐
amples field screened and on Ice?	☐	☐

HMSS

Soil Profile

Date: 4-20-22

Project: TRUNK M

Latitude: 32.396842 Longitude: -103.21077

Depth (ft. bgs)		Description
1	~~topsoil~~ 1'	topsoil
2	2'	topsoil
3	3'	CAliche
4	4'	CAliche
5	5'	CAliche
6	6'	~~CAM~~ CAliche
7	7'	CAliche
8	8'	CAliche
9	9'	CAliche
10	10'	"
11	11'	"
12	12'	"
13	13'	"
14	14'	"
15	15'	"
16	16'	"
17	17'	"
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Attachment II
Depth To Groundwater

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	CP 01651 POD1	1	3	4	12	22S	36E	667538	3586460

Driller License: 1753 **Driller Company:** VANGUARD WATER WELLS

Driller Name: JACOB FIRESSEN

Drill Start Date: 02/23/2017 **Drill Finish Date:** 02/24/2017 **Plug Date:**

Log File Date: 03/22/2017 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 5.00 **Depth Well:** 148 feet **Depth Water:**

Water Bearing Stratifications:	Top	Bottom	Description
	24	139	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	108	148

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	CP 01651 POD1	1	3	4	12	22S	36E	667538	3586460

Driller License:	1753	**Driller Company:**	VANGUARD WATER WELLS		
Driller Name:	JACOB FIRESSEN				
Drill Start Date:	02/23/2017	**Drill Finish Date:**	02/24/2017	**Plug Date:**	
Log File Date:	03/22/2017	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	5.00	**Depth Well:**	148 feet	**Depth Water:**	

Water Bearing Stratifications:	Top	Bottom	Description
	24	139	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	108	148

National Water Information System: Web Interface

USGS Water Resources

Data Category: Site Information | Geographic Area: United States | GO

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- Full News

USGS 322343103123901 22S.36E.13.22222

Available data for this site SUMMARY OF ALL AVAILABLE DATA | GO

Well Site

DESCRIPTION:

Latitude 32°23'43", Longitude 103°12'39" NAD27
Lea County, New Mexico , Hydrologic Unit 13070007
Well depth: not determined.
Land surface altitude: 3,450 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Chinle Formation" (231CHNL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1968-03-19	1976-01-20	3
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

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Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Title: NWIS Site Information for USA: Site Inventory
URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=322343103123901

Page Contact Information: New Mexico Water Data Support Team
Page Last Modified: 2022-05-03 14:11:42 EDT
0.65 0.63 vaww02

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- Full News

USGS 322409103133501 22S.36E.12.31112

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

Well Site

DESCRIPTION:

Latitude 32°24'22.48", Longitude 103°13'35.93" NAD83
Lea County, New Mexico , Hydrologic Unit 13070007
Well depth: 212 feet
Land surface altitude: 3,498 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1966-08-18	2016-01-06	12
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

---

Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: NWIS Site Information for USA: Site Inventory
URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=322409103133501

Page Contact Information: New Mexico Water Data Support Team
Page Last Modified: 2022-05-03 14:12:41 EDT
0.59 0.58 vaww02

National Water Information System: Web Interface

USGS Water Resources

Data Category: Site Information | Geographic Area: United States | GO

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USGS 322423103134701 22S.36E.11.22344

Available data for this site SUMMARY OF ALL AVAILABLE DATA | GO

Well Site

DESCRIPTION:

Latitude 32°24'23", Longitude 103°13'47" NAD27
Lea County, New Mexico , Hydrologic Unit 13070007
Well depth: not determined.
Land surface altitude: 3,516 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Ogallala Formation" (121OGLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1953-11-12	1970-12-03	4
Revisions	Loading...		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322409103133501

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 322409103133501 22S.36E.12.31112

Lea County, New Mexico
Latitude 32°24'22.48", Longitude 103°13'35.93" NAD83
Land-surface elevation 3,498 feet above NAVD88
The depth of the well is 212 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1966-08-18		D	62610		3381.47	NGVD29	1	Z		
1966-08-18		D	62611		3382.89	NAVD88	1	Z		
1966-08-18		D	72019	115.11			1	Z		
1970-12-03		D	62610		3380.47	NGVD29	1	Z		
1970-12-03		D	62611		3381.89	NAVD88	1	Z		
1970-12-03		D	72019	116.11			1	Z		
1976-01-20		D	62610		3377.41	NGVD29	1	Z		
1976-01-20		D	62611		3378.83	NAVD88	1	Z		
1976-01-20		D	72019	119.17			1	Z		
1981-03-12		D	62610		3375.43	NGVD29	1	Z		
1981-03-12		D	62611		3376.85	NAVD88	1	Z		
1981-03-12		D	72019	121.15			1	Z		
1981-05-20		D	62610		3375.30	NGVD29	1	Z		
1981-05-20		D	62611		3376.72	NAVD88	1	Z		
1981-05-20		D	72019	121.28			1	Z		
1986-03-07		D	62610		3374.09	NGVD29	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1986-03-07		D	62611		3375.51	NAVD88	1	Z		
1986-03-07		D	72019	122.49			1	Z		
1991-05-01		D	62610		3372.81	NGVD29	1	Z		
1991-05-01		D	62611		3374.23	NAVD88	1	Z		
1991-05-01		D	72019	123.77			1	Z		
1996-02-15		D	62610		3372.45	NGVD29	1	S		
1996-02-15		D	62611		3373.87	NAVD88	1	S		
1996-02-15		D	72019	124.13			1	S		
2001-02-07		D	62610		3371.95	NGVD29	1	V		
2001-02-07		D	62611		3373.37	NAVD88	1	V		
2001-02-07		D	72019	124.63			1	V		
2006-02-22		D	62610		3373.84	NGVD29	1	S	USGS	
2006-02-22		D	62611		3375.26	NAVD88	1	S	USGS	
2006-02-22		D	72019	122.74			1	S	USGS	
2011-01-13	21:00 UTC	m	62610		3376.57	NGVD29	1	S	USGS	
2011-01-13	21:00 UTC	m	62611		3377.99	NAVD88	1	S	USGS	
2011-01-13	21:00 UTC	m	72019	120.01			1	S	USGS	
2016-01-06	21:15 UTC	m	62610		3370.23	NGVD29	1	V	USGS	
2016-01-06	21:15 UTC	m	62611		3371.65	NAVD88	1	V	USGS	
2016-01-06	21:15 UTC	m	72019	126.35			1	V	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-05-03 14:13:03 EDT
0.28 0.24 nadww02

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322423103134701

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 322423103134701 22S.36E.11.22344

Lea County, New Mexico
Latitude 32°24'23", Longitude 103°13'47" NAD27
Land-surface elevation 3,516 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1953-11-12		D	62610		3400.71	NGVD29	1	Z		
1953-11-12		D	62611		3402.14	NAVD88	1	Z		
1953-11-12		D	72019	113.86			1	Z		
1965-11-04		D	62610		3388.25	NGVD29	1	Z		
1965-11-04		D	62611		3389.68	NAVD88	1	Z		
1965-11-04		D	72019	126.32			1	Z		
1968-03-19		D	62610		3389.77	NGVD29	1	Z		
1968-03-19		D	62611		3391.20	NAVD88	1	Z		
1968-03-19		D	72019	124.80			1	Z		
1970-12-03		D	62610		3389.15	NGVD29	1	Z		
1970-12-03		D	62611		3390.58	NAVD88	1	Z		
1970-12-03		D	72019	125.42			1	Z		

Explanation

Section	Code	Description

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-05-03 14:13:32 EDT
0.27 0.24 nadww02

Attachment III
Laboratory Analytical Reports

CARDINAL Laboratories

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

April 27, 2022

LINDSEY NEVELS

HAZMAT SPECIAL SERVICES

8610 S EUNICE HWY

HOBBS, NM 88240

RE: ETC - TRUNK M

Enclosed are the results of analyses for samples received by the laboratory on 04/20/22 16:41.

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.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW PoI SOUTH SURFACE	H221637-01	Soil	20-Apr-22 11:45	20-Apr-22 16:41
SW PoI SOUTH 2'	H221637-02	Soil	20-Apr-22 12:00	20-Apr-22 16:41
SW PoI NORTH SURFACE	H221637-03	Soil	20-Apr-22 12:10	20-Apr-22 16:41
SW PoI NORTH 1'	H221637-04	Soil	20-Apr-22 12:20	20-Apr-22 16:41
SW PoI WEST SURFACE	H221637-05	Soil	20-Apr-22 12:45	20-Apr-22 16:41
SW PoI WEST 1'	H221637-06	Soil	20-Apr-22 12:55	20-Apr-22 16:41
SW PoI EAST SURFACE	H221637-07	Soil	20-Apr-22 13:05	20-Apr-22 16:41
SW PoI EAST 1'	H221637-08	Soil	20-Apr-22 13:15	20-Apr-22 16:41
SP 1 PoI 6'	H221637-09	Soil	20-Apr-22 10:30	20-Apr-22 16:41
SP 1 PoI 8'	H221637-10	Soil	20-Apr-22 10:45	20-Apr-22 16:41
SP 1 PoI 10'	H221637-11	Soil	20-Apr-22 11:00	20-Apr-22 16:41
SP 1 PoI 12'	H221637-12	Soil	20-Apr-22 11:10	20-Apr-22 16:41
SP 1 PoI 14'	H221637-13	Soil	20-Apr-22 11:20	20-Apr-22 16:41
SP 1 PoI 16'	H221637-14	Soil	20-Apr-22 11:30	20-Apr-22 16:41

04/27/22 - Client added BTEX and TPH to all samples on 04/25/22. This is the revised report and will replace the one sent on 04/24/22.

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SW PoI SOUTH SURFACE

H221637-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**160**		16.0	mg/kg	4	2042214	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*69.9-140*		*2042507*	MS/	*25-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2042504	JH	25-Apr-22	8015B	
DRO >C10-C28*	**12.2**		10.0	mg/kg	1	2042504	JH	25-Apr-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2042504	JH	25-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*80.6 %*	*66.9-136*		*2042504*	JH	*25-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*76.8 %*	*59.5-142*		*2042504*	JH	*25-Apr-22*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SW PoI SOUTH 2'

H221637-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**160**		16.0	mg/kg	4	2042214	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*69.9-140*		*2042507*	MS/	*25-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
DRO >C10-C28*	**24.6**		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*89.5 %*	*66.9-136*		*2042511*	MS	*26-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*85.4 %*	*59.5-142*		*2042511*	MS	*26-Apr-22*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SW PoI NORTH SURFACE

H221637-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	2042214	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*69.9-140*		*2042507*	MS/	*25-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2042511	MS	25-Apr-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2042511	MS	25-Apr-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2042511	MS	25-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*75.7 %*	*66.9-136*		*2042511*	MS	*25-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*69.7 %*	*59.5-142*		*2042511*	MS	*25-Apr-22*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SW PoI NORTH 1'

H221637-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	2042214	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*69.9-140*		*2042507*	MS/	*25-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2042511	MS	25-Apr-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2042511	MS	25-Apr-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2042511	MS	25-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*87.6 %*	*66.9-136*		*2042511*	MS	*25-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*80.4 %*	*59.5-142*		*2042511*	MS	*25-Apr-22*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SW PoI WEST SURFACE

H221637-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**256**		16.0	mg/kg	4	2042214	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*69.9-140*		*2042507*	MS/	*25-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*86.9 %*	*66.9-136*		*2042511*	MS	*26-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*79.3 %*	*59.5-142*		*2042511*	MS	*26-Apr-22*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SW PoI WEST 1'

H221637-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**256**		16.0	mg/kg	4	2042214	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*69.9-140*		*2042507*	MS/	*25-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*88.2 %*	*66.9-136*		*2042511*	MS	*26-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*80.6 %*	*59.5-142*		*2042511*	MS	*26-Apr-22*	*8015B*	

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CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SW PoI EAST SURFACE

H221637-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**208**		16.0	mg/kg	4	2042214	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*69.9-140*		*2042507*	MS/	*25-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*87.9 %*	*66.9-136*		*2042511*	MS	*26-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*80.5 %*	*59.5-142*		*2042511*	MS	*26-Apr-22*	*8015B*	

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CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SW PoI EAST 1'

H221637-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**176**		16.0	mg/kg	4	2042215	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*69.9-140*		*2042507*	MS/	*25-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*87.4 %*	*66.9-136*		*2042511*	MS	*26-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*80.1 %*	*59.5-142*		*2042511*	MS	*26-Apr-22*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SP 1 PoI 6'

H221637-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**1800**		16.0	mg/kg	4	2042215	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*69.9-140*		*2042507*	MS/	*25-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
DRO >C10-C28*	**92.3**		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
EXT DRO >C28-C36	**10.1**		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*88.2 %*	*66.9-136*		*2042511*	MS	*26-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*87.5 %*	*59.5-142*		*2042511*	MS	*26-Apr-22*	*8015B*	

Cardinal Laboratories

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CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SP 1 PoI 8'

H221637-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**1010**		16.0	mg/kg	4	2042215	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*69.9-140*		*2042507*	MS/	*25-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
DRO >C10-C28*	**177**		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
EXT DRO >C28-C36	**87.4**		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*79.1 %*	*66.9-136*		*2042511*	MS	*26-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*92.8 %*	*59.5-142*		*2042511*	MS	*26-Apr-22*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SP 1 PoI 10'

H221637-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**2400**		16.0	mg/kg	4	2042215	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*69.9-140*		*2042507*	MS/	*25-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
DRO >C10-C28*	**194**		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
EXT DRO >C28-C36	**92.2**		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*85.7 %*	*66.9-136*		*2042511*	MS	*26-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*100 %*	*59.5-142*		*2042511*	MS	*26-Apr-22*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SP 1 PoI 12'

H221637-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**3600**		16.0	mg/kg	4	2042215	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2042507	MS/	25-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*69.9-140*		*2042507*	MS/	*25-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
DRO >C10-C28*	**106**		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
EXT DRO >C28-C36	**29.3**		10.0	mg/kg	1	2042511	MS	26-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*96.9 %*	*66.9-136*		*2042511*	MS	*26-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*101 %*	*59.5-142*		*2042511*	MS	*26-Apr-22*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SP 1 PoI 14'

H221637-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**4960**		16.0	mg/kg	4	2042215	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										**S-04**
Benzene*	**0.133**		0.050	mg/kg	50	2042507	MS/	26-Apr-22	8021B	
Toluene*	**1.06**		0.050	mg/kg	50	2042507	MS/	26-Apr-22	8021B	
Ethylbenzene*	**6.20**		0.050	mg/kg	50	2042507	MS/	26-Apr-22	8021B	
Total Xylenes*	**12.7**		0.150	mg/kg	50	2042507	MS/	26-Apr-22	8021B	
Total BTEX	**20.1**		0.300	mg/kg	50	2042507	MS/	26-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*205 %*	*69.9-140*		*2042507*	MS/	*26-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	**273**		50.0	mg/kg	5	2042511	MS	26-Apr-22	8015B	
DRO >C10-C28*	**2040**		50.0	mg/kg	5	2042511	MS	26-Apr-22	8015B	
EXT DRO >C28-C36	**403**		50.0	mg/kg	5	2042511	MS	26-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*100 %*	*66.9-136*		*2042511*	MS	*26-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*193 %*	*59.5-142*		*2042511*	MS	*26-Apr-22*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

SP 1 PoI 16'

H221637-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**2760**		16.0	mg/kg	4	2042215	AC	22-Apr-22	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										**S-04**
Benzene*	<0.050		0.050	mg/kg	50	2042507	MS/	26-Apr-22	8021B	
Toluene*	**0.801**		0.050	mg/kg	50	2042507	MS/	26-Apr-22	8021B	
Ethylbenzene*	**5.67**		0.050	mg/kg	50	2042507	MS/	26-Apr-22	8021B	
Total Xylenes*	**13.6**		0.150	mg/kg	50	2042507	MS/	26-Apr-22	8021B	
Total BTEX	**20.1**		0.300	mg/kg	50	2042507	MS/	26-Apr-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*198 %*	*69.9-140*		*2042507*	MS/	*26-Apr-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	**244**		50.0	mg/kg	5	2042511	MS	26-Apr-22	8015B	
DRO >C10-C28*	**2010**		50.0	mg/kg	5	2042511	MS	26-Apr-22	8015B	
EXT DRO >C28-C36	**341**		50.0	mg/kg	5	2042511	MS	26-Apr-22	8015B	
Surrogate: 1-Chlorooctane			*95.9 %*	*66.9-136*		*2042511*	MS	*26-Apr-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*133 %*	*59.5-142*		*2042511*	MS	*26-Apr-22*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2042214 - 1:4 DI Water										
Blank (2042214-BLK1)				Prepared & Analyzed: 22-Apr-22						
Chloride	ND	16.0	mg/kg							
LCS (2042214-BS1)				Prepared & Analyzed: 22-Apr-22						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (2042214-BSD1)				Prepared & Analyzed: 22-Apr-22						
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Batch 2042215 - 1:4 DI Water										
Blank (2042215-BLK1)				Prepared & Analyzed: 22-Apr-22						
Chloride	ND	16.0	mg/kg							
LCS (2042215-BS1)				Prepared & Analyzed: 22-Apr-22						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2042215-BSD1)				Prepared & Analyzed: 22-Apr-22						
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2042507 - Volatiles										
Blank (2042507-BLK1)				Prepared & Analyzed: 25-Apr-22						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0506*		mg/kg	*0.0500*		*101*	*69.9-140*			
LCS (2042507-BS1)				Prepared & Analyzed: 25-Apr-22						
Benzene	2.07	0.050	mg/kg	2.00		104	83.4-122			
Toluene	2.06	0.050	mg/kg	2.00		103	84.2-126			
Ethylbenzene	1.98	0.050	mg/kg	2.00		98.9	84.2-121			
m,p-Xylene	4.18	0.100	mg/kg	4.00		105	89.9-126			
o-Xylene	2.00	0.050	mg/kg	2.00		99.8	84.3-123			
Total Xylenes	6.18	0.150	mg/kg	6.00		103	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0497*		mg/kg	*0.0500*		*99.5*	*69.9-140*			
LCS Dup (2042507-BSD1)				Prepared & Analyzed: 25-Apr-22						
Benzene	1.91	0.050	mg/kg	2.00		95.6	83.4-122	8.12	12.6	
Toluene	1.90	0.050	mg/kg	2.00		95.2	84.2-126	7.68	13.3	
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.1	84.2-121	8.15	13.9	
m,p-Xylene	3.83	0.100	mg/kg	4.00		95.9	89.9-126	8.66	13.6	
o-Xylene	1.85	0.050	mg/kg	2.00		92.4	84.3-123	7.61	14.1	
Total Xylenes	5.68	0.150	mg/kg	6.00		94.7	89.1-124	8.32	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0497*		mg/kg	*0.0500*		*99.5*	*69.9-140*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2042504 - General Prep - Organics										
Blank (2042504-BLK1)				Prepared & Analyzed: 25-Apr-22						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*41.6*		mg/kg	*50.0*		*83.1*	*66.9-136*			
Surrogate: 1-Chlorooctadecane	*40.1*		mg/kg	*50.0*		*80.1*	*59.5-142*			
LCS (2042504-BS1)				Prepared & Analyzed: 25-Apr-22						
GRO C6-C10	194	10.0	mg/kg	200		97.0	78.5-128			
DRO >C10-C28	179	10.0	mg/kg	200		89.4	75.8-135			
Total TPH C6-C28	373	10.0	mg/kg	400		93.2	81.5-127			
Surrogate: 1-Chlorooctane	*44.8*		mg/kg	*50.0*		*89.7*	*66.9-136*			
Surrogate: 1-Chlorooctadecane	*46.6*		mg/kg	*50.0*		*93.2*	*59.5-142*			
LCS Dup (2042504-BSD1)				Prepared & Analyzed: 25-Apr-22						
GRO C6-C10	195	10.0	mg/kg	200		97.5	78.5-128	0.476	21.4	
DRO >C10-C28	181	10.0	mg/kg	200		90.7	75.8-135	1.54	17.9	
Total TPH C6-C28	376	10.0	mg/kg	400		94.1	81.5-127	0.987	17.6	
Surrogate: 1-Chlorooctane	*46.4*		mg/kg	*50.0*		*92.8*	*66.9-136*			
Surrogate: 1-Chlorooctadecane	*47.6*		mg/kg	*50.0*		*95.2*	*59.5-142*			
Batch 2042511 - General Prep - Organics										
Blank (2042511-BLK1)				Prepared & Analyzed: 25-Apr-22						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*54.2*		mg/kg	*50.0*		*108*	*66.9-136*			
Surrogate: 1-Chlorooctadecane	*53.9*		mg/kg	*50.0*		*108*	*59.5-142*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

HAZMAT SPECIAL SERVICES 8610 S EUNICE HWY HOBBS NM, 88240	Project: ETC - TRUNK M Project Number: NM032822-01 Project Manager: LINDSEY NEVELS Fax To:	Reported: 27-Apr-22 15:28

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2042511 - General Prep - Organics										
LCS (2042511-BS1)				Prepared & Analyzed: 25-Apr-22						
GRO C6-C10	208	10.0	mg/kg	200		104	78.5-128			
DRO >C10-C28	223	10.0	mg/kg	200		112	75.8-135			
Total TPH C6-C28	431	10.0	mg/kg	400		108	81.5-127			
Surrogate: 1-Chlorooctane	*65.7*		mg/kg	*50.0*		*131*	*66.9-136*			
Surrogate: 1-Chlorooctadecane	*60.5*		mg/kg	*50.0*		*121*	*59.5-142*			
LCS Dup (2042511-BSD1)				Prepared & Analyzed: 25-Apr-22						
GRO C6-C10	220	10.0	mg/kg	200		110	78.5-128	5.72	21.4	
DRO >C10-C28	228	10.0	mg/kg	200		114	75.8-135	2.13	17.9	
Total TPH C6-C28	448	10.0	mg/kg	400		112	81.5-127	3.88	17.6	
Surrogate: 1-Chlorooctane	*64.9*		mg/kg	*50.0*		*130*	*66.9-136*			
Surrogate: 1-Chlorooctadecane	*58.2*		mg/kg	*50.0*		*116*	*59.5-142*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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.
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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Energy transfer
Project Manager:	Lindsay Nevels
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	Trunk m
Project Location:	Trunk m
Sampler Name:	Kyle Garcia

BILL TO

P.O. #:	E-22012-91-21300162
Company:	
Attn:	
Address:	
City:	
State: Zip:	
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Chlorides	BTEX	TPH Ext to 4/25/22
H221437																	
1	sw PoI south surface	✓				✓							4-20	11:45	X	✓	✓
2	sw PoI south 1'	✓				✓							4-20	12:00	X	|	|
3	sw PoI North surface	✓				✓							4-20	12:10	X	|	|
4	sw PoI North 1'	✓				✓							4-20	12:20	X	|	|
5	sw PoI west surface	✓				✓							4-20	12:45	X	|	|
6	sw PoI west 1'	✓				✓							4-20	12:55	X	|	|
7	sw PoI East surface	✓				✓							4-20	1:05	X	|	|
8	sw PoI East 1'	✓				✓							4-20	1:15	X	|	|

Modified

Relinquished By:	Date: 4-20-22	Received By:	
Kyle Garcia	Time: 1641	Rodriguez	
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
LNevels@hazmatspecialservices.com
REMARKS: cc
hgaytan@hazmatspecialservices.com

Delivered By: (Circle One)	Observed Temp. °C 0.9	Sample Condition: Cool ☑ Yes ☐ No	Intact ☑ Yes ☐ No	CHECKED BY: (Initials) SR
Sampler - UPS - Bus - Other:	Corrected Temp. °C 0.4			

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113
Correction Factor -0.5°C
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

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

FORM-006 R 3.2 10/07/21

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		BILL TO	
Company Name:	ETC Energy Transfer	P.O. #:	E-22012-61-213001
Project Manager:	Lindsay Nevels	Company:	
Address:		Attn:	
City:	State: Zip:	Address:	
Phone #:	Fax #:	City:	
Project #:	Project Owner:	State: Zip:	
Project Name:	Trunk M	Phone #:	
Project Location:	Trunk M	Fax #:	
Sampler Name:	Kyle Garcia		

ANALYSIS REQUEST

Lab I.D.: H221637

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides	BTEX added to 4/25/22	TPH Ext
SP1 PoI	6'	✓			✓							4-20	10:30	X	✓	✓
SP1 PoI	8'	✓			✓							4-20	10:45	X	✓	✓
SP1 PoI	10'	✓			✓							4-20	11:00	X	✓	✓
SP1 PoI	12'	✓			✓							4-20	11:10	X	✓	✓
SP1 PoI	14'	✓			✓							4-20	11:20	X	✓	✓
SP1 PoI	16'	✓			✓							4-20	11:30	X	✓	✓
												4-20		X	✓	✓

FOR LAB USE ONLY

Relinquished By: Kyle Garcia	Date: 4-20-22 Time: 1641	Received By: S Rodriguez	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address: LNevels@hazmatspecialservices.com
			REMARKS: cc hgaytan@hazmatspecialservices.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 0.9 Corrected Temp. °C 0.4	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials) SR
			Turnaround Time: Standard ☐ Rush ☐ Thermometer ID #113 Correction Factor -0.5°C
			Bacteria (only) Sample Condition Cool: Yes / No Intact: Yes / No Observed Temp. °C Corrected Temp. °C

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

Attachment IV
NMOCD Form C-141 Remediation Pages

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

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:_____ Date: _05/12/2022_____

email: dean.ericson@energytransfer.com_____Telephone: _432-238-2142_____

OCD Only

Received by: _____ Date: _____

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: 05/12/2022

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

OCD Only

Received by: _____ Date: _____

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 05/27/2022

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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

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: _____

Incident ID	nAPP2209040079
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?	>100(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

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 107419

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 107419
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved.	5/27/2022