Incident ID	pending
District RP	1RP-5410
Facility ID	fAB1908835112
Application ID	pAB1908835332

August 24, 2019

Dylan Rose-Coss
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1625 French Drive
Hobbs, NM 88240

Re: **Remediation Summary and Closure Report**
Site Name: 2C-3-4
GPS: Latitude: 32.1748 Longitude: -103.0959
Legals: UL "G", Sec. 31, T24S, R38E
Lea County, New Mexico
NMOCD Ref. No. 1RP-5410

Lowry Environmental & Associates, LLC (LEA), on behalf of ETC Texas Pipeline, Ltd., has prepared this Remediation Summary and Closure Report for the Release Site known as the 2C-3-4. Details of the release are summarized on the table below:

Nature and Volume of Release			
Date Release Discovered	3/6/2019	**Source of Release**	Pipeline
Type of Release	Natural Gas Liquids	**Volume Released (bbls)**	9.4
		Volume Recovered (bbls)	None
Cause of Release The release was attributed to the failure of a segment of buried natural gas pipeline as a result of corrosion.			
Affected Area The release saturated an area within a pipeline right-of-way and adjacent pasture land totaling approximately 2,490 sq. ft; a light mist affected an additional area measuring approximately 9,300 sq. ft.			
Was this a major release? No		**If YES, for what reasons (s) is this considered a major release?** N/A	
If Yes, was immediate notice given to the OCD? By whom? To whom? When and by what means? N/A			

A copy of the Release Notification (NMOCD Form C-141) is provided as Attachment #8.

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Site Assessment/Characterization	
What is the shallowest depth to groundwater beneath the area affected by the release?	50-100 Ft.
Did this release impact groundwater or surface water?	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	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)?	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	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?	No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	No
Are the lateral extents of the release within 300 feet of a wetland?	No
Are the lateral extents of the release overlying a subsurface mine?	No
Are the lateral extents of the release overlying an unstable area such as karst geology?	No
Are the lateral extents of the release within a 100-year floodplain?	No
Did the release impact areas **not** on an exploration, development, production or storage site?	Yes

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey was conducted in an effort to determine the depth to groundwater within a 1 Mile radius of the Site and identify any registered water wells within a 1/2 Mile radius of the Site. A search of the NMOSE and USGS databases suggested the presence of 1 water well (321017103060401) 0.42 Mi of the Site.

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	
Benzene	**10 mg/kg**
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	**50 mg/kg**
Total Petroleum Hydrocarbons	**2500 mg/kg**
Combined GRO and DRO	**1000 mg/kg**
Chloride	**10000 mg/kg**

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2. Depth to groundwater information is provided as Attachment #4. A Photographic Log is provided as Attachment #7.

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District RP	1RP-5410
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INITIAL SITE ASSESSMENT

On **March 27, 2019,** LEA conducted an initial site assessment. During the initial site assessment, fourteen (14) representative soil samples (V-1 @ 0-6", V-1 @ 4', V-1 @ 6'-R V-2 @ 0-6", V-2 @ 2', NH-1 @ 0-6", NH-1 @ 20", NH-1b @ 0-6", NH-1b @ 12", EH-1 @ 0-6", EH-1 @ 24", SH-1 @ 0-6", SH-1 @ 24", WH-1 @ 0-6", WH-1 @ 24") were collected from the affected area in an effort to determined the vertical and horizontal extent of soil impacts. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of the TPH concentrations in soil samples V-1 @ 0-6", V-1 @ 4', V-2 @ 0-6" .

A table summarizing laboratory analytical results from soil samples collected during the initial site assessment is provided below:

Concentrations of BTEX, TPH and/or Chloride in Soil - Initial Assessment

Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500Cl
				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)
V-1 @ 0-6"	3/27/19	0-6"	Excavated	Excavated	<0.300	<50.0	5,380	**5,380**	1,240	**6,620**	80.0
V-1 @ 4'	3/27/19	4'	Excavated	Excavated	11.2	651	29,600	**30,251**	7,660	**37,911**	480
V-1 @ 6'-R	3/27/19	6'	Excavated	Excavated	<0.300	<10.0	334	334	88	422	16.0
V-2 @ 0-6"	3/27/19	0-6"	Excavated	Excavated	<0.300	<50.0	5,860	**5,860**	1,640	**7,500**	80.0
V-2 @ 2'	3/27/19	2'	In-Situ	<0.050	<0.300	<10.0	29.7	29.7	<10.0	29.7	16.0
NH-1 @ 0-6"	3/27/19	0-6"	Excavated	Excavated	<0.300	<10.0	819	819	170	989	16.0
NH-1 @ 20"	3/27/19	20"	In-Situ	<0.050	<0.300	<10.0	26.5	26.5	<10.0	26.5	16.0
NH-1b @ 0-6"	3/27/19	0-6"	In-Situ	<0.050	<0.300	<10.0	18.1	<10.0	18.1	18.1	16.0
NH-1b @ 12"	3/27/19	12"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
EH-1 @ 0-6"	3/27/19	0-6"	In-Situ	<0.050	<0.300	<10.0	16.2	16.2	<10.0	16.2	16.0
EH-1 @ 24"	3/27/19	24"	In-Situ	<0.050	0.405	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SH-1 @ 0-6"	3/27/19	0-6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SH-1 @ 24"	3/27/19	24"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
WH-1 @ 0-6"	3/27/19	0-6"	In-Situ	<0.050	<0.300	<10.0	19.9	19.9	<10.0	19.9	16.0
WH-1 @ 24"	3/27/19	24"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Closure Criteria				**10**	**50**	**-**	**-**	**1,000**	**-**	**2,500**	**10,000**

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #9. Soil profile observations are provided on Attachment #5. Laboratory analytical reports are provided as Attachment #6.

Incident ID	pending
District RP	1RP-5410
Facility ID	fAB1908835112
Application ID	pAB1908835332

PROPOSED REMEDIATION PLAN

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

•Utilizing mechanical equipment, excavate impacted soil in the area characterized by sample point V-1 do a depth beyond 4 Ft. bgs, the area characterzed by sample point V-2 to a depth of approximately 2 ft. bgs and the area characterized by sample point NH-1 to a depth of approximately 20 inches (in.).
• The floor and sidewalls of the excavation will be advanced until laboratory anlaytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria
•Vegetation within the "lightly misted area" will be monitored for "die off". In the event vegetation is lost, affected areas will be excavated and/or in accordance with the landowner. ETC maintains scraping the affected pasture poses a risk to the existing grass stand.
• Excavated soil will be temporarily stockpiled on-site, atop an impermeable liner, pending transportation under manifest to an NMOCD-approved disposal facility.
• Upon excavating impacted soil affected above the NMOCD Closure Criteria and receiving laboratory analytical results from confirmation soil samples, the excavated area will be backfilled with locally sourced, non-impacted "like" material. Excavation backfill will be 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.

SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than **50 linear ft**. A minimum of **one (1**) representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **500 square feet**. Additional, "discrete" confirmation soil samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

Incident ID	pending
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NMOCD APPROVALS/STIPULATIONS

The Site Assessment Report and Proposed Remediation Plan was subsequently approved with the condition that the Site be delineated vertically to 100 mg/kg TPH.

Please reference the associated Site Assessment Report and Proposed Remediation Plan that was submitted for 1RP-5410 additional details.

REMEDIATION ACTIVITIES SUMMARY

On **August 8, 2019**, remediation activities commenced at the release site. Impacted soil affected above the NMOCD Closure Criteria was excavated and temporarily stockpiled on-site, pending final disposition. Impacted soil affected above the NMOCD Reclamation Standard present within the top 4 Ft. was excavated and temporarily stockpiled on-site, pending final disposistion.

On **August 9, 2019,** LEA collected twelve (13) excavation confirmation soil samples (E. Floor @ 2', Floor @ 7', W. Floor @ 2', N. Floor @ 2' #1, N. Floor @ 2' #2, NSWa, ESWa, SSWa, WSWa, NSWb, ESWb, SSWa-b and WSWb) from the floor and sidewalls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. TPH and chloride concentrations were below the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil sample N. Floor @ 2' #2 (168 mg/kg), ESWa (206 mg/kg) and NSWb (259.1 mg/kg).

In addition, in accordance with the NMOCD, one (1) test trench (TT-1) was advanced adjacent to the inferred release point. During the advancement of the test trench, one (1) soil sample (TT-1 @ 11') was collected and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH and chloride concentrations were below the NMOCD Reclamation Standard.

Upon receiving laboratory analytical results from the initial soil samples, remediation activities resumed at the release site. Impacted soil in the areas characterized by soil samples N. Floor @ 2' #2, ESWa and NSWb was excavated and transported to and NMOCD-approved disposal facility.

On **August 14, 2019,** two (2) excavation confirmation soil samples (N. Floor #2 8-14 and ESWa 8-14) were collected from the floor and sidewalls of the excavated area and submitted to an NMOCD-approved laboratory for analysis of BTEX, TPH and chloride concentrations, which were determined to be below the NMOCD Reclamation Standard.

A table summarizing laboratory analytical results from confirmation soil samples is provided on the following page:

Incident ID	pending
District RP	1RP-5410
Facility ID	fAB1908835112
Application ID	pAB1908835332

Concentrations of BTEX, TPH and/or Chloride in Soil - Confirmation Samples

Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E300/4500Cl
				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)
E. Floor @ 2'	8/9/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Floor @ 7'	8/9/19	7'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
W. Floor @ 2'	8/9/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
N. Floor @ 2' #1	8/9/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
N. Floor @ 2' #2	8/9/19	2'	Excavated	<0.050	<0.300	<10.0	121	121	47.3	**168**	<16.0
NSWa	8/9/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
ESWa	8/9/19	NA	Excavated	<0.050	<0.300	<10.0	135	135	71.3	**206**	16.0
SSWa	8/9/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
WSWa	8/9/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
NSWb	8/9/19	NA	Excavated	<0.050	<0.300	<10.0	172	172	87.1	259.1	16.0
ESWb	8/9/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SSWa-b	8/9/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
WSWb	8/9/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
TT-1 @ 11'	8/9/19	0-2'	In-Situ	-	-	<10.0	16.0	16.0	<10.0	16.0	32.0
N. Floor #2 8-14	8/14/19	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
ESWa 8-14	8/14/19	NA	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
Closure Criteria				**10**	**50**	**-**	**-**	**1,000**	**-**	**2,500**	**10,000**

Incident ID	pending
District RP	1RP-5410
Facility ID	fAB1908835112
Application ID	pAB1908835332

CLOSURE REQUEST

Remediation activities were conducted in accordance with an NMOCD-approved Workplan. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria/NMOCD Reclamation Standard in each of the submitted soil samples. Between August 8 and August 14, 2019, approximately 120 cubic yards of impacted soil was excavated and transported to an NMOCD-approved disposal facility. The final dimensions of the excavated area were approximately

RESTORATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. Excavation backfill was contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Areas affected by remediation activities will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

Based on laboratory analytical results, field activities conducted to date and conditions at the site, LEA recommends ETC Texas Pipeline, Ltd. provide a copy of this Remediation Summary and Closure Report to the NMOCD and request closure be granted to the 2C-3-4 Site.

Respectfully,

Joel W. Lowry
Environmental Professional
Lowry Environmental & Associates, LLC

Attachments:

Attachment #1- Figure 1 - Topographic Map
Attachment #2- Figure 2 - Aerial Map
Attachment #3- Figure 3 - Site & Sample Location Map
Attachment #4- Depth to Groundwater Information
Attachment #5- Soil Profile
Attachment #6- Laboratory Analytical Reports
Attachment #7- Photographic Log
Attachment #8- Release Notification (FORM C-141)
Attachment #9- Field Data

LIMITATIONS

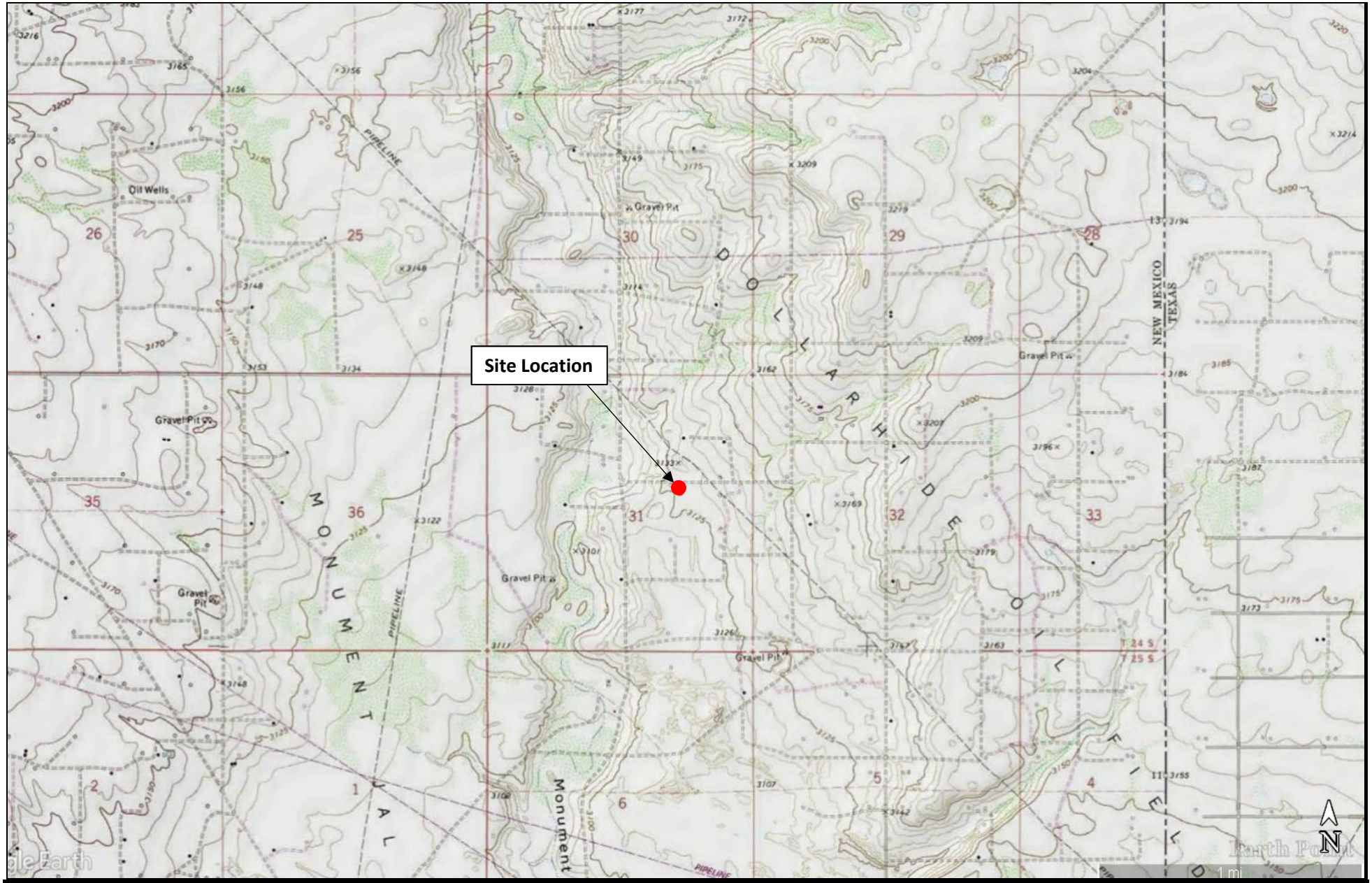
This document has been prepared on behalf of ETC Texas Pipeline, Ltd.. Use of information contained in this report, including exhibits and attachments, by any other party without the consent of LEA and/or ETC Texas Pipeline, Ltd. is prohibited.

This document has been prepared in a professional manner, using the degree of skill and care exercised by similar environmental professionals. LEA notes that the facts and conditions referenced in this document may change over time and that the conclusions and recommendations are only applicable to the facts and conditions as described at the time this document was prepared.

LEA has prepared this report to the best of its ability. No other warranty, expressed or implied, is made or intended.

ATTACHMENT #1

Figure 1 - Topographic Map



LEGEND:

- Site Location

Figure 1
Topographic Map
ETC Texas Pipeline, Ltd.
2C-3-4
GPS: 32.1748, -103.0959
Lea County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 4/6/2019

ATTACHMENT #2

Figure 2 - Aerial Map

LEGEND:

- Site Location
- Fresh Water Well
- 100-Year Floodplain
- High/Critical Karst
- Non-Inustrial Building
- Subsurface Mine
- Playa Lake
- 1/2 Mi Radius

Figure 2

Aerial Map

ETC Texas Pipeline, Ltd.

2C-3-4

GPS: 32.1748, -103.0959

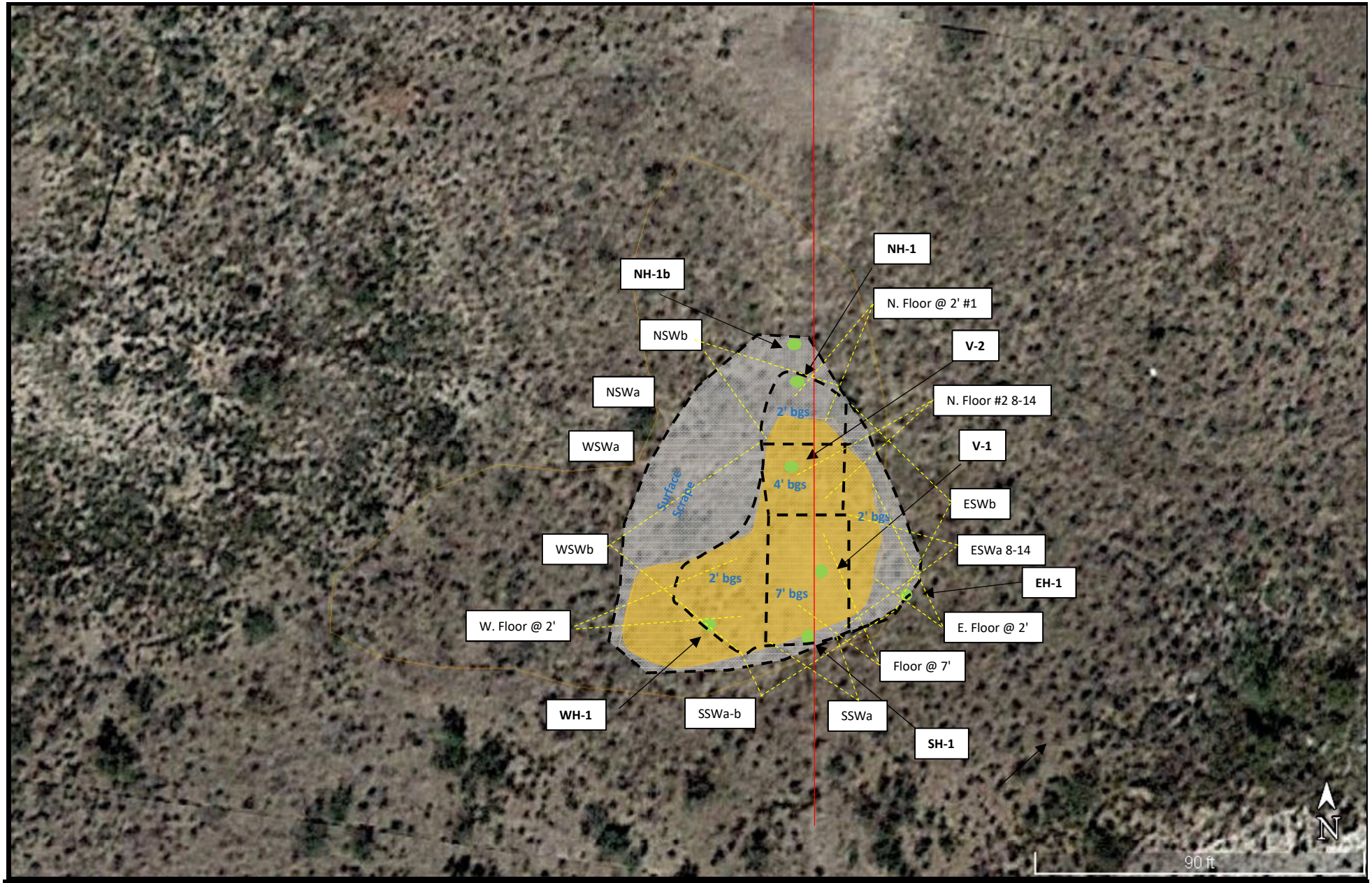
Lea County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 4/6/2019

ATTACHMENT #3

Figure 3 - Site & Sample Location Map



LEGEND:

- Delineation Sample Point
- Affected Area
- Buried Pipeline
- Excavated Area

Figure 3

Site & Sample Location Map

ETC Texas Pipeline, Ltd.

2C-3-4

GPS: 32.1748, -103.0959

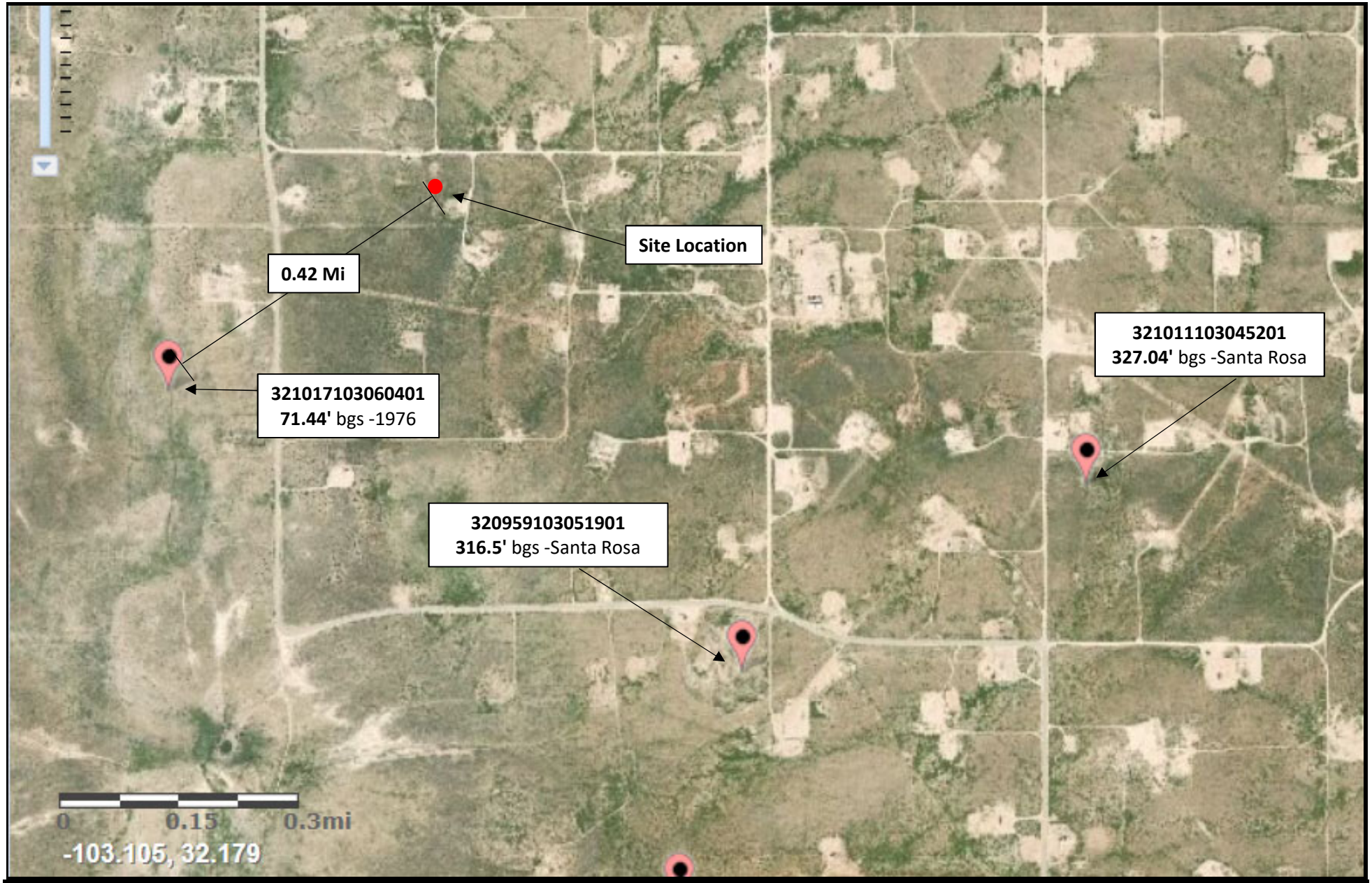
Lea County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 8/24/2019

ATTACHMENT #4

Depth to Groundwater Information



LEGEND:

- Site Location

Figure 4

USGS Well Proximity Map

ETC Texas Pipeline, Ltd.

2C-3-4

GPS: 32.1748, -103.0959

Lea County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 8/24/2019

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 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00085 POD1		CP	LE	4	2	2	36	24S	37E	678261	3561768*	1322	109	82	27
CP 00084 POD1		CP	LE	2	2	2	36	24S	37E	678261	3561968*	1391	98	77	21
CP 00084 POD2		CP	LE		2	4	36	24S	37E	678176	3561065*	1395	180	92	88

Average Depth to Water: **83 feet**

Minimum Depth: **77 feet**

Maximum Depth: **92 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 679531.1 **Northing (Y):** 3561400.3 **Radius:** 1610

***UTM location was derived from PLSS - see Help**

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321017103060401

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

USGS 321017103060401 24S.38E.31.142114

Lea County, New Mexico
Latitude 32°10'17", Longitude 103°06'04" NAD27
Land-surface elevation 3,102 feet above NAVD88
The depth of the well is 90 feet below land surface.
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	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1968-02-22		D	63.96			2		U		
1970-12-04		D	66.95			2		U		
1976-01-14		D	71.44			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Subscribe for system changes
News

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Meas agen

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- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320959103051901

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

USGS 320959103051901 24S.38E.32.312331

Lea County, New Mexico
Latitude 32°09'59", Longitude 103°05'19" NAD27
Land-surface elevation 3,123 feet above NAVD88
The depth of the well is 824 feet below land surface.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1976-01-14		D	316.50			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321011103045201

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

USGS 321011103045201 24S.38E.32.233411

Lea County, New Mexico
Latitude 32°10'11", Longitude 103°04'52" NAD27
Land-surface elevation 3,177 feet above NAVD88
The depth of the well is 845 feet below land surface.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1976-01-14		D	354.74			2		U		
1981-03-18		D	327.04			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

ATTACHMENT #5
Soil Profile

SOIL PROFILE

Site Name: 2C-3-4

Date: 3/27/2019

Description	Depth (ft. bgs)
Brownish / Red Topsoil	1
	2
Reddish Sand	3
	4
	5
	6
Rock Refusal	7
	8
	9
	0
	1
	2
	3
	4
	5
	6
	7
	8
	9
	0
	1
	2
	3
	4
	5
	6
	7
	8
	9
	0
	1
	2
	3
	4
	5
	6
	7
	8
	9
	0

ATTACHMENT #6
Laboratory Analytical Reports

CARDINAL Laboratories

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

April 03, 2019

JOEL LOWRY

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2C - 3-4

Enclosed are the results of analyses for samples received by the laboratory on 03/28/19 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V - 1 @ 0-6"	H901173-01	Soil	27-Mar-19 11:05	28-Mar-19 14:30
V - 1 @ 4'	H901173-02	Soil	27-Mar-19 11:07	28-Mar-19 14:30
V - 1 @ 6'R	H901173-03	Soil	27-Mar-19 11:10	28-Mar-19 14:30
V - 2 @ 0-6"	H901173-04	Soil	27-Mar-19 11:15	28-Mar-19 14:30
V - 2 @ 2'	H901173-05	Soil	27-Mar-19 11:18	28-Mar-19 14:30
NH - 1 @ 0-6"	H901173-07	Soil	27-Mar-19 11:25	28-Mar-19 14:30
NH - 1 @ 20"	H901173-08	Soil	27-Mar-19 11:28	28-Mar-19 14:30
NH - 1B @ 0-6"	H901173-09	Soil	27-Mar-19 11:30	28-Mar-19 14:30
NH - 1B @ 12"	H901173-10	Soil	27-Mar-19 11:34	28-Mar-19 14:30
EH - 1 @ 0-6"	H901173-11	Soil	27-Mar-19 11:36	28-Mar-19 14:30
EH - 1 @ 24"	H901173-12	Soil	27-Mar-19 11:39	28-Mar-19 14:30
SH - 1 @ 0-6"	H901173-13	Soil	27-Mar-19 11:42	28-Mar-19 14:30
SH - 1 @ 24"	H901173-14	Soil	27-Mar-19 11:45	28-Mar-19 14:30
WH - 1 @ 0-6"	H901173-15	Soil	27-Mar-19 11:48	28-Mar-19 14:30
WH - 1 @ 24"	H901173-16	Soil	27-Mar-19 11:51	28-Mar-19 14:30

Client added BTEX/TPH/Cl to samples -03, -09 and -10 on 04/02/19. This is the revised report reflecting that addition. This report will replace the original sent on 04/02/19.

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:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

V - 1 @ 0-6"

H901173-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	9032910	JH	01-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9032906	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9032906	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9032906	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9032906	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9032906	ms	01-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*94.9 %*	*73.3-129*		*9032906*	ms	*01-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	<50.0		50.0	mg/kg	5	9032905	MS	29-Mar-19	8015B	
DRO >C10-C28*	**5380**		50.0	mg/kg	5	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	**1240**		50.0	mg/kg	5	9032905	MS	29-Mar-19	8015B	
Surrogate: 1-Chlorooctane			*90.7 %*	*41-142*		*9032905*	MS	*29-Mar-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*269 %*	*37.6-147*		*9032905*	MS	*29-Mar-19*	*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:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

V - 1 @ 4'

H901173-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**480**		16.0	mg/kg	4	9032910	JH	01-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.500		0.500	mg/kg	500	9032906	ms	30-Mar-19	8021B	
Toluene*	<0.500		0.500	mg/kg	500	9032906	ms	30-Mar-19	8021B	
Ethylbenzene*	**2.09**		0.500	mg/kg	500	9032906	ms	30-Mar-19	8021B	
Total Xylenes*	**9.07**		1.50	mg/kg	500	9032906	ms	30-Mar-19	8021B	
Total BTEX	**11.2**		3.00	mg/kg	500	9032906	ms	30-Mar-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*73.3-129*		*9032906*	ms	*30-Mar-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	**651**		100	mg/kg	10	9032905	MS	29-Mar-19	8015B	
DRO >C10-C28*	**29600**		100	mg/kg	10	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	**7660**		100	mg/kg	10	9032905	MS	29-Mar-19	8015B	
Surrogate: 1-Chlorooctane			*141 %*	*41-142*		*9032905*	MS	*29-Mar-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*992 %*	*37.6-147*		*9032905*	MS	*29-Mar-19*	*8015B*	

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CARDINAL Laboratories

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

Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

V - 1 @ 6'R

H901173-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	9040209	AC	03-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.5 %*	*73.3-129*		*9040202*	ms	*02-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
DRO >C10-C28*	**334**		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
EXT DRO >C28-C36	**87.9**		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
Surrogate: 1-Chlorooctane			*82.8 %*	*41-142*		*9040206*	MS	*03-Apr-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*101 %*	*37.6-147*		*9040206*	MS	*03-Apr-19*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

V - 2 @ 0-6"

H901173-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	9032910	JH	01-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*94.7 %*	*73.3-129*		*9040102*	ms	*01-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										**S-06**
GRO C6-C10*	<50.0		50.0	mg/kg	5	9032905	MS	29-Mar-19	8015B	
DRO >C10-C28*	**5860**		50.0	mg/kg	5	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	**1640**		50.0	mg/kg	5	9032905	MS	29-Mar-19	8015B	
Surrogate: 1-Chlorooctane			*87.7 %*	*41-142*		*9032905*	MS	*29-Mar-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*283 %*	*37.6-147*		*9032905*	MS	*29-Mar-19*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

V - 2 @ 2'

H901173-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	9032910	JH	01-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.4 %*	*73.3-129*		*9040102*	ms	*01-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
DRO >C10-C28*	**29.7**		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
Surrogate: 1-Chlorooctane			*81.6 %*	*41-142*		*9032905*	MS	*29-Mar-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*81.7 %*	*37.6-147*		*9032905*	MS	*29-Mar-19*	*8015B*	

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

NH - 1 @ 0-6''

H901173-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	9032910	JH	01-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*94.9 %*	*73.3-129*		*9040102*	ms	*01-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
DRO >C10-C28*	**816**		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	**170**		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
Surrogate: 1-Chlorooctane			*85.2 %*	*41-142*		*9032905*	MS	*29-Mar-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*112 %*	*37.6-147*		*9032905*	MS	*29-Mar-19*	*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:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

NH - 1 @ 20''

H901173-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	9032910	JH	01-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.4 %*	*73.3-129*		*9040102*	ms	*01-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
DRO >C10-C28*	**26.5**		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
Surrogate: 1-Chlorooctane			*81.0 %*	*41-142*		*9032905*	MS	*29-Mar-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*81.9 %*	*37.6-147*		*9032905*	MS	*29-Mar-19*	*8015B*	

Cardinal Laboratories

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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:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

NH - 1B @ 0-6"

H901173-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	9040209	AC	03-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*97.3 %*	*73.3-129*		*9040202*	ms	*02-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
DRO >C10-C28*	**18.1**		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
Surrogate: 1-Chlorooctane			*85.2 %*	*41-142*		*9040206*	MS	*03-Apr-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*84.9 %*	*37.6-147*		*9040206*	MS	*03-Apr-19*	*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:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

NH - 1B @ 12"

H901173-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	9040209	AC	03-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040202	ms	02-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*95.7 %*	*73.3-129*		*9040202*	ms	*02-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040206	MS	03-Apr-19	8015B	
Surrogate: 1-Chlorooctane			*83.8 %*	*41-142*		*9040206*	MS	*03-Apr-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*84.2 %*	*37.6-147*		*9040206*	MS	*03-Apr-19*	*8015B*	

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

EH - 1 @ 0-6"

H901173-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	9032913	JH	01-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*95.9 %*	*73.3-129*		*9040102*	ms	*01-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
DRO >C10-C28*	**13.2**		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
Surrogate: 1-Chlorooctane			*80.4 %*	*41-142*		*9032905*	MS	*29-Mar-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*83.1 %*	*37.6-147*		*9032905*	MS	*29-Mar-19*	*8015B*	

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

EH - 1 @ 24"

H901173-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	9032913	JH	01-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.6 %*	*73.3-129*		*9040102*	ms	*01-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
Surrogate: 1-Chlorooctane			*76.0 %*	*41-142*		*9032905*	MS	*29-Mar-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*77.3 %*	*37.6-147*		*9032905*	MS	*29-Mar-19*	*8015B*	

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

SH - 1 @ 0-6''

H901173-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	9032913	JH	01-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*95.6 %*	*73.3-129*		*9040102*	ms	*01-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032905	MS	29-Mar-19	8015B	
Surrogate: 1-Chlorooctane			*81.2 %*	*41-142*		*9032905*	MS	*29-Mar-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*82.1 %*	*37.6-147*		*9032905*	MS	*29-Mar-19*	*8015B*	

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

SH - 1 @ 24"

H901173-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	9032913	JH	01-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*95.6 %*	*73.3-129*		*9040102*	ms	*01-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
Surrogate: 1-Chlorooctane			*75.4 %*	*41-142*		*9032912*	MS	*29-Mar-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*75.8 %*	*37.6-147*		*9032912*	MS	*29-Mar-19*	*8015B*	

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

WH - 1 @ 0-6"

H901173-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	9032913	JH	01-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*96.8 %*	*73.3-129*		*9040102*	ms	*01-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
DRO >C10-C28*	**19.9**		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
Surrogate: 1-Chlorooctane			*78.0 %*	*41-142*		*9032912*	MS	*29-Mar-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*79.4 %*	*37.6-147*		*9032912*	MS	*29-Mar-19*	*8015B*	

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

WH - 1 @ 24"

H901173-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	9032913	JH	01-Apr-19	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040102	ms	01-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*95.8 %*	*73.3-129*		*9040102*	ms	*01-Apr-19*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9032912	MS	29-Mar-19	8015B	
Surrogate: 1-Chlorooctane			*84.4 %*	*41-142*		*9032912*	MS	*29-Mar-19*	*8015B*	
Surrogate: 1-Chlorooctadecane			*84.3 %*	*37.6-147*		*9032912*	MS	*29-Mar-19*	*8015B*	

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9032910 - General Prep - Wet Chem										
Blank (9032910-BLK1)				Prepared & Analyzed: 29-Mar-19						
Chloride	ND	16.0	mg/kg							
LCS (9032910-BS1)				Prepared & Analyzed: 29-Mar-19						
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (9032910-BSD1)				Prepared & Analyzed: 29-Mar-19						
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Batch 9032913 - General Prep - Wet Chem										
Blank (9032913-BLK1)				Prepared & Analyzed: 29-Mar-19						
Chloride	ND	16.0	mg/kg							
LCS (9032913-BS1)				Prepared & Analyzed: 29-Mar-19						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (9032913-BSD1)				Prepared & Analyzed: 29-Mar-19						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 9040209 - General Prep - Wet Chem										
Blank (9040209-BLK1)				Prepared & Analyzed: 02-Apr-19						
Chloride	ND	16.0	mg/kg							
LCS (9040209-BS1)				Prepared & Analyzed: 02-Apr-19						
Chloride	416	16.0	mg/kg	400		104	80-120			

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9040209 - General Prep - Wet Chem										
LCS Dup (9040209-BSD1)				Prepared & Analyzed: 02-Apr-19						
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

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 9032906 - Volatiles										
Blank (9032906-BLK1)				Prepared & Analyzed: 29-Mar-19						
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)	*0.0923*		mg/kg	*0.100*		*92.3*	*73.3-129*			
LCS (9032906-BS1)				Prepared & Analyzed: 29-Mar-19						
Benzene	2.13	0.050	mg/kg	2.00		107	72.2-131			
Toluene	2.01	0.050	mg/kg	2.00		100	71.7-126			
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	68.9-126			
Total Xylenes	6.34	0.150	mg/kg	6.00		106	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0911*		mg/kg	*0.100*		*91.1*	*73.3-129*			
LCS Dup (9032906-BSD1)				Prepared & Analyzed: 29-Mar-19						
Benzene	2.06	0.050	mg/kg	2.00		103	72.2-131	3.15	6.91	
Toluene	1.95	0.050	mg/kg	2.00		97.6	71.7-126	2.84	7.12	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126	1.99	7.88	
Total Xylenes	6.19	0.150	mg/kg	6.00		103	71.4-125	2.45	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0902*		mg/kg	*0.100*		*90.2*	*73.3-129*			
Batch 9040102 - Volatiles										
Blank (9040102-BLK1)				Prepared & Analyzed: 01-Apr-19						
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)	*0.0954*		mg/kg	*0.100*		*95.4*	*73.3-129*			

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

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 9040102 - Volatiles										
LCS (9040102-BS1)				Prepared & Analyzed: 01-Apr-19						
Benzene	1.93	0.050	mg/kg	2.00		96.4	72.2-131			
Toluene	1.86	0.050	mg/kg	2.00		92.9	71.7-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	68.9-126			
Total Xylenes	6.14	0.150	mg/kg	6.00		102	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0956*		mg/kg	*0.100*		*95.6*	*73.3-129*			
LCS Dup (9040102-BSD1)				Prepared & Analyzed: 01-Apr-19						
Benzene	1.87	0.050	mg/kg	2.00		93.5	72.2-131	2.98	6.91	
Toluene	1.80	0.050	mg/kg	2.00		89.9	71.7-126	3.33	7.12	
Ethylbenzene	1.92	0.050	mg/kg	2.00		95.8	68.9-126	4.55	7.88	
Total Xylenes	5.85	0.150	mg/kg	6.00		97.4	71.4-125	4.85	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0929*		mg/kg	*0.100*		*92.9*	*73.3-129*			
Batch 9040202 - Volatiles										
Blank (9040202-BLK1)				Prepared & Analyzed: 02-Apr-19						
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)	*0.0955*		mg/kg	*0.100*		*95.5*	*73.3-129*			
LCS (9040202-BS1)				Prepared & Analyzed: 02-Apr-19						
Benzene	1.93	0.050	mg/kg	2.00		96.4	72.2-131			
Toluene	1.85	0.050	mg/kg	2.00		92.4	71.7-126			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.7	68.9-126			
Total Xylenes	6.16	0.150	mg/kg	6.00		103	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0946*		mg/kg	*0.100*		*94.6*	*73.3-129*			

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

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 9040202 - Volatiles										
LCS Dup (9040202-BSD1)				Prepared & Analyzed: 02-Apr-19						
Benzene	1.73	0.050	mg/kg	2.00		86.3	72.2-131	11.0	6.91	QR-02
Toluene	1.67	0.050	mg/kg	2.00		83.7	71.7-126	9.88	7.12	QR-02
Ethylbenzene	1.81	0.050	mg/kg	2.00		90.3	68.9-126	9.83	7.88	QR-02
Total Xylenes	5.62	0.150	mg/kg	6.00		93.6	71.4-125	9.30	7.46	QR-02
Surrogate: 4-Bromofluorobenzene (PID)	*0.0949*		mg/kg	*0.100*		*94.9*	*73.3-129*			

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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:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

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 9032905 - General Prep - Organics										
Blank (9032905-BLK1)				Prepared & Analyzed: 29-Mar-19						
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	*52.2*		mg/kg	*50.0*		*104*	*41-142*			
Surrogate: 1-Chlorooctadecane	*53.0*		mg/kg	*50.0*		*106*	*37.6-147*			
LCS (9032905-BS1)				Prepared & Analyzed: 29-Mar-19						
GRO C6-C10	180	10.0	mg/kg	200		90.2	76.5-133			
DRO >C10-C28	201	10.0	mg/kg	200		101	72.9-138			
Total TPH C6-C28	382	10.0	mg/kg	400		95.5	78-132			
Surrogate: 1-Chlorooctane	*54.6*		mg/kg	*50.0*		*109*	*41-142*			
Surrogate: 1-Chlorooctadecane	*54.5*		mg/kg	*50.0*		*109*	*37.6-147*			
LCS Dup (9032905-BSD1)				Prepared & Analyzed: 29-Mar-19						
GRO C6-C10	180	10.0	mg/kg	200		90.2	76.5-133	0.0144	20.6	
DRO >C10-C28	194	10.0	mg/kg	200		97.2	72.9-138	3.58	20.6	
Total TPH C6-C28	375	10.0	mg/kg	400		93.7	78-132	1.87	18	
Surrogate: 1-Chlorooctane	*52.5*		mg/kg	*50.0*		*105*	*41-142*			
Surrogate: 1-Chlorooctadecane	*49.9*		mg/kg	*50.0*		*99.9*	*37.6-147*			
Batch 9032912 - General Prep - Organics										
Blank (9032912-BLK1)				Prepared & Analyzed: 29-Mar-19						
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	*51.4*		mg/kg	*50.0*		*103*	*41-142*			
Surrogate: 1-Chlorooctadecane	*53.6*		mg/kg	*50.0*		*107*	*37.6-147*			

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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:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

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 9032912 - General Prep - Organics										
LCS (9032912-BS1)				Prepared & Analyzed: 29-Mar-19						
GRO C6-C10	205	10.0	mg/kg	200		102	76.5-133			
DRO >C10-C28	190	10.0	mg/kg	200		95.1	72.9-138			
Total TPH C6-C28	395	10.0	mg/kg	400		98.7	78-132			
Surrogate: 1-Chlorooctane	*54.2*		mg/kg	*50.0*		*108*	*41-142*			
Surrogate: 1-Chlorooctadecane	*52.6*		mg/kg	*50.0*		*105*	*37.6-147*			
LCS Dup (9032912-BSD1)				Prepared & Analyzed: 29-Mar-19						
GRO C6-C10	213	10.0	mg/kg	200		107	76.5-133	4.05	20.6	
DRO >C10-C28	200	10.0	mg/kg	200		99.9	72.9-138	4.92	20.6	
Total TPH C6-C28	413	10.0	mg/kg	400		103	78-132	4.47	18	
Surrogate: 1-Chlorooctane	*55.0*		mg/kg	*50.0*		*110*	*41-142*			
Surrogate: 1-Chlorooctadecane	*53.8*		mg/kg	*50.0*		*108*	*37.6-147*			
Batch 9040206 - General Prep - Organics										
Blank (9040206-BLK1)				Prepared & Analyzed: 02-Apr-19						
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	*43.2*		mg/kg	*50.0*		*86.4*	*41-142*			
Surrogate: 1-Chlorooctadecane	*42.0*		mg/kg	*50.0*		*84.1*	*37.6-147*			
LCS (9040206-BS1)				Prepared: 02-Apr-19 Analyzed: 03-Apr-19						
GRO C6-C10	166	10.0	mg/kg	200		83.2	76.5-133			
DRO >C10-C28	212	10.0	mg/kg	200		106	72.9-138			
Total TPH C6-C28	378	10.0	mg/kg	400		94.5	78-132			
Surrogate: 1-Chlorooctane	*47.0*		mg/kg	*50.0*		*94.1*	*41-142*			
Surrogate: 1-Chlorooctadecane	*46.0*		mg/kg	*50.0*		*92.0*	*37.6-147*			

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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:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252	Project: 2C - 3-4 Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 03-Apr-19 13:51

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 9040206 - General Prep - Organics										
LCS Dup (9040206-BSD1)				Prepared & Analyzed: 02-Apr-19						
GRO C6-C10	165	10.0	mg/kg	200		82.3	76.5-133	1.04	20.6	
DRO >C10-C28	205	10.0	mg/kg	200		102	72.9-138	3.29	20.6	
Total TPH C6-C28	369	10.0	mg/kg	400		92.3	78-132	2.29	18	
Surrogate: 1-Chlorooctane	*46.7*		mg/kg	*50.0*		*93.5*	*41-142*			
Surrogate: 1-Chlorooctadecane	*45.1*		mg/kg	*50.0*		*90.1*	*37.6-147*			

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Celey D. Keene, Lab Director/Quality Manager

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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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

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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:	ETC Texas Pipeline, Ltd.	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	600 N. Marienfeld. St., Suite 700, Midland, TX 79701	**Company:**	
Phone #:	**Fax #:**	**Owner**	
Project Owner:	ETC Texas Pipeline, Ltd.		
Project Name:	2C-3-4		
Project Location:	Lea	**Attn:**	
Sampler Name:	Jordyne Taylor		Dean Ericson

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST									
Lab I.D.	**Sample I.D.**	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015 M. Ext (New Mexico)	Chloride 4500 Cl-B	BTEX 8021	TPH TX 1005		HOLD				RUSH
H901172			3																					
1	V-1 at 0-6"	G	1			x					x		3/27/19	11:05	x	x	x							
2	V-1 at 4'	G	1			x					x		3/27/19	11:07	x	x	x							
3	V-1 at 6'R	G	1			x					x		3/27/19	11:10	(x)	(x)	(x)			X		added 4/2		
4	V-2 at 0-6"	G	1			x					x		3/27/19	11:15	x	x	x							
5	V-2 at 2'	G	1			x					x		3/27/19	11:18	x	x	x							
6	V-2 at 4'	G	1			x					x		3/27/19	11:20	x	x	x			X				
7	NH-1 at 0-6"	G	1			x					x		3/27/19	11:25	x	x	x							
8	NH-1 at 20"	G	1			x					x		3/27/19	11:28	x	x	x							
9	NH-1b at 0-6"	G	1			x					x		3/27/19	11:30	(x)	(x)	(x)			X		added 4/2		
10	NH-1b at 12"	G	1			x					x		3/27/19	11:34	(x)	(x)	(x)			X		added 4/2		

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 consequental 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.

Relinquished By: Jordyne Taylor	**Date:** 3-28-19	**Received By:** Tamara Oldaker	**Phone Result:** ☐ Yes ☐ No **Add'l Phone #:**
	Time: 1430		**Fax Result:** ☐ Yes ☐ No **Add'l Fax #:**
Relinquished By:	**Date:**	**Received By:**	**REMARKS:** * Samples on hold pending further analysis.
	Time:		joel@lowrvenviromental.com

Delivered By: (Circle One) Sampler - UPS - Bus - Other: -1.3c #97

Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No

CHECKED BY: (Initials) TO

FORM 006 R 2.0

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

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ETC Texas Pipeline, Ltd.	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	600 N. Marienfeld. St., Suite 700, Midland, TX 79701	**Company:**	
Phone #:	**Fax #:**	**Owner**	
Project Owner:	ETC Texas Pipeline, Ltd.		
Project Name:	2C-3-4		
Project Location:	Lea	**Attn:**	
Sampler Name:	Jordyne Taylor	Dean Ericson	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	**Sample I.D.**	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015 M. Ext (New Mexico)	Chloride 4500 Cl-B	BTEX 8021	TPH TX 1005		HOLD				RUSH	
H901178 3																								
11	EH-1 at 0-6"	G	1			x					x		3/27/19	11:36	x	x	x							
12	EH-1 at 24"	G	1			x					x		3/27/19	11:39	x	x	x							
13	SH-1 at 0-6"	G	1			x					x		3/27/19	11:42	x	x	x							
14	SH-1 at 24"	G	1			x					x		3/27/19	11:45	x	x	x							
15	WH-1 at 0-6"	G	1			x					x		3/27/19	11:48	x	x	x							
16	WH-1 at 24"	G	1			x					x		3/27/19	11:51	x	x	x							
17	WH-1b at 0-6"	G	1			x					x		3/27/19	11:55	x	x	x			XX				
18	WH-1b at 24"	G	1			x					x		3/27/19	11:59	x	x	x							

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 consequental 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.

Relinquished By: Jordyne Taylor	**Date:** 3-28-19	**Received By:** Tamara Eldridge	
	Time: 1430		
Relinquished By:	**Date:**	**Received By:**	
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: -1.3° #197

Sample Condition Cool: ☑ Yes ☐ No — Intact: ☑ Yes ☐ No

CHECKED BY: (Initials) JO

Phone Result:	☐ Yes	☐ No	**Add'l Phone #:**
Fax Result:	☐ Yes	☐ No	**Add'l Fax #:**

REMARKS:

joel@lowrvenviromental.com

FORM-006 R 2.0

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

CARDINAL Laboratories

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

August 13, 2019

JOEL LOWRY

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2C - 3-4

Enclosed are the results of analyses for samples received by the laboratory on 08/09/19 16:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: E. FLOOR @ 2' (H902756-01)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/13/2019	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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane *95.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *101 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: FLOOR @ 7' (H902756-02)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/13/2019	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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane *96.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *102 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: W. FLOOR @ 2' (H902756-03)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/13/2019	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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *109 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: N. FLOOR @ 2' #1 (H902756-04)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/13/2019	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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane *97.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *102 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: N. FLOOR @ 2' #2 (H902756-05)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.6 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/13/2019	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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	**121**	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	**47.3**	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane *96.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *108 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: NSWa (H902756-06)

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	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/13/2019	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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane *104 %* *41-142*

Surrogate: 1-Chlorooctadecane *109 %* *37.6-147*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: ESWa (H902756-07)

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	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/13/2019	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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	**135**	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	**71.3**	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *115 %* *37.6-147*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: SSWa (H902756-08)

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	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/13/2019	ND	432	108	400	3.77	

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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane *94.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *100 %* *37.6-147*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: WSWa (H902756-09)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/13/2019	ND	432	108	400	3.77	

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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane *97.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *104 %* *37.6-147*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: NSWb (H902756-10)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/13/2019	ND	432	108	400	3.77	

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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	**172**	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	**87.1**	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane *98.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *114 %* *37.6-147*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: ESWb (H902756-11)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/13/2019	ND	432	108	400	3.77	

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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane *97.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *104 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: SSWa-b (H902756-12)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/13/2019	ND	432	108	400	3.77	

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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane *96.2 %* *41-142*

Surrogate: 1-Chlorooctadecane *103 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/13/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: WSWb (H902756-13)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	2.15	107	2.00	6.45	
Toluene*	<0.050	0.050	08/13/2019	ND	2.29	115	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.17	108	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.69	112	6.00	5.14	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/13/2019	ND	432	108	400	3.77	

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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane *98.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *105 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Mike Snyder For 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:	ETC Texas Pipeline, Ltd.	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	600 N. Marienfeld. St., Suite 700, Midland, TX 79701	**Company:**	ETC Texas Pipeline, Ltd.
City:	**State:** **Zip:**	**Attn:**	Dean Ericson
Phone #:	432-466-4450 **Fax #:**	**Address:**	
Project #:	**Project Owner:**	**City:**	
Project Name:	2C-3-4	**State:** **Zip:**	
Project Location:	Lea County, New Mexico	**Phone #:**	
Sampler Name:		**Fax #:**	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D.	**Sample I.D.**	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	**DATE**	**TIME**	**Chloride**	**TPH**	**BTEX 8021**									
H902756																									
1	E. Floor @ 2'	C	1			x					x		8/9/19	11:05	x	x	x								
2	Floor @ 7'	C	1			x					x		8/9/19	11:10	x	x	x								
3	W. Floor @ 2'	C	1			x					x		8/9/19	11:12	x	x	x								
4	N. Floor @ 2' #1	C	1			x					x		8/9/19	11:21	x	x	x								
5	N. Floor @ 2' #2	C	1			x					x		8/9/19	11:23	x	x	x								
6	NSWa	C	1			x					x		8/9/19	11:40	x	x	x								
7	ESWa	C	1			x					x		8/9/19	11:35	x	x	x								
8	SSWa	C	1			x					x		8/9/19	11:42	x	x	x								
9	WSWa	C	1			x					x		8/9/19	11:37	x	x	x								
10	NSWb	C	1			x					x		8/9/19	11:51	x	x	x								

Relinquished By: Joel Lowry	**Date:** 8/9/19	**Received By:** Jodi Henson	**Phone Result:** ☐ Yes ☐ No **Add'l Phone #:**
	Time: 4:18		**Fax Result:** ☐ Yes ☐ No **Add'l Fax #:**
Relinquished By:	**Date:**	**Received By:**	**REMARKS:** joel@lowrvenvironmental.com
	Time:		dean.ericson@energytransfer.com
Delivered By: (Circle One) +.4 corrected	**Sample Condition** Cool / Intact	**CHECKED BY:** (Initials)	RUSH!! Added 8/13/19 by Joel.
Sampler - UPS - Bus - Other: 1.0° 1.4° #97	☑ Yes ☑ Yes ☐ No ☐ No		

FORM-006 R 2.0

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

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ETC Texas Pipeline, Ltd.	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	600 N. Marienfeld. St., Suite 700, Midland, TX 79701	**Company:**	ETC Texas Pipeline, Ltd.
City:	**State:** **Zip:**	**Attn:**	Dean Ericson
Phone #:	432-466-4450 **Fax #:**	**Address:**	
Project #:	**Project Owner:**	**City:**	
Project Name:	2C-3-4	**State:**	**Zip:**
Project Location:	Lea County, New Mexico	**Phone #:**	
Sampler Name:		**Fax #:**	

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	Chloride	TPH	BTEX 8021
H902756																	
11	ESWb	C	1			x					x		8/9/19	11:55	x	x	x
12	SSWa-b	C	1			x					x		8/9/19	11:57	x	x	x
13	WSWb	C	1			x					x		8/9/19	11:59	x	x	x

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 consequental 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.

Relinquished By: Joel Lowry	**Date:** 8/9/19 **Time:** 4:19	**Received By:** Jodi Henson	
Relinquished By:	**Date:** **Time:**	**Received By:**	
Delivered By: (Circle One) 1.0° +4 Corrected	**Sample Condition** Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	**CHECKED BY: (Initials)**	
Sampler - UPS - Bus - Other: 1.4° #97			

Phone Result: ☐ Yes ☐ No **Add'l Phone #:**
Fax Result: ☐ Yes ☐ No **Add'l Fax #:**
REMARKS:
joel@lowrvenvironmental.com
dean.ericson@energytransfer.com

FORM-006 R 2.0

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

CARDINAL Laboratories

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

August 14, 2019

JOEL LOWRY

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2C - 3-4

Enclosed are the results of analyses for samples received by the laboratory on 08/09/19 16:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENERGY TRANSFER
JOEL LOWRY
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	08/09/2019	Sampling Date:	08/09/2019
Reported:	08/14/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: TT - 1 @ 11' (H902757-01)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/13/2019	ND	432	108	400	3.77	

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	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	**16.0**	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane	*92.5 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*98.4 %*	*37.6-147*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Mike Snyder For 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:	ETC Texas Pipeline, Ltd.	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	600 N. Marienfeld. St., Suite 700, Midland, TX 79701	**Company:**	ETC Texas Pipeline, Ltd.
City:	**State:** **Zip:**	**Attn:**	Dean Ericson
Phone #:	432-466-4450 **Fax #:**	**Address:**	
Project #:	**Project Owner:**	**City:**	
Project Name:	2C-3-4	**State:**	**Zip:**
Project Location:	Lea County, New Mexico	**Phone #:**	
Sampler Name:		**Fax #:**	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D.	**Sample I.D.**	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021									
H902757																									
1	TT-1 @ 11'	C	1			x					x		8/9/19	12:01		x									

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 consequental 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.

Relinquished By:	**Date:** 8/9/19	**Received By:**	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 4:19		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	**Date:**	**Received By:**	**REMARKS:** joel@lowrvenvironmental.com
	Time:		dean.ericson@energytransfer.com
Delivered By: (Circle One)	1.0c +.4 Corrected	**Sample Condition** Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	**CHECKED BY: (Initials)** TO.
Sampler - UPS - Bus - Other:	1.4c #97		8/13/19 Joel added RUSH!!

FORM-006 R 2.0

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

CARDINAL Laboratories

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

August 15, 2019

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2C - 3-4

Enclosed are the results of analyses for samples received by the laboratory on 08/14/19 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/14/2019	Sampling Date:	08/14/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	32.1748-103.0959	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: ESWA 8-14 (H902777-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	1.85	92.4	2.00	1.69	
Toluene*	<0.050	0.050	08/14/2019	ND	1.97	98.6	2.00	4.30	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	1.97	98.7	2.00	4.93	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	5.99	99.8	6.00	6.80	
Total BTEX	<0.300	0.300	08/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/14/2019	ND	432	108	400	3.77	

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	08/14/2019	ND	207	103	200	1.69	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					

Surrogate: 1-Chlorooctane *91.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *95.0 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

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:

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

Received:	08/14/2019	Sampling Date:	08/14/2019
Reported:	08/15/2019	Sampling Type:	Soil
Project Name:	2C - 3-4	Sampling Condition:	Cool & Intact
Project Number:	32.1748-103.0959	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: N. FLOOR #2 8-14 (H902777-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	1.85	92.4	2.00	1.69	
Toluene*	<0.050	0.050	08/14/2019	ND	1.97	98.6	2.00	4.30	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	1.97	98.7	2.00	4.93	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	5.99	99.8	6.00	6.80	
Total BTEX	<0.300	0.300	08/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/14/2019	ND	432	108	400	3.77	

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	08/14/2019	ND	207	103	200	1.69	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	208	104	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					

Surrogate: 1-Chlorooctane *99.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *105 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: ETC
Project Manager: Dean Ericson
Address:
City: State: Zip:
Phone #: Fax #:
Project #: Project Owner:
Project Name: 2C-3-4
Project Location: 32.1748 -103.0959
Sampler Name: Tyler Bun

BILL TO
P.O. #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

Lab I.D. (FOR LAB USE ONLY)	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	ANALYSIS REQUEST: Cl	Btex	TPH Ext
H902777 1	ESWA 8-14	|	|			|							8/14/19	9:30 am	|	|	|
2	N.Floor#2 8-14	|	|			|							|	/	|	|	|

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 consequental 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.

Relinquished By: [signature] Date: 8/14/19 Time: 10:40 Received By: Tamara [signature]
Relinquished By: Date: Time: Received By:

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS: Rush!! Rush!!

Delivered By: (Circle One) 5.6c #97
Sampler - UPS - Bus - Other: Corrected 6.0c

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials) T.O.

ATTACHMENT #7
Photographic Log

PHOTOGRAPHIC LOG

Figure 1 View of surface staining from the initial release and sample location.

PHOTOGRAPHIC LOG

Figure 2 View of surface staining from the initial release.

PHOTOGRAPHIC LOG

Figure 3 View of surface staining from the initial release.

PHOTOGRAPHIC LOG

Figure 4 View of portion of the excavated area.

Figure 5 View of portion of the excavated area.

PHOTOGRAPHIC LOG

Figure 6 View of portion of the excavated area.

ATTACHMENT #8
Release Notification (FORM C-141)

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	0
District RP	0 1RP-5410
Facility ID	0 fAB1908835112
Application ID	0 pAB1908835332

Release Notification

Responsible Party

Responsibly Party	ETC Texas Pipeline, Ltd.	OGRID	371183
Contact Name	Carolyn Blackaller	Contact Telephone	817-302-9766
Contact Email	carolyn.blackaller@energytransfer.com	Incident # *(assigned by OCD)*	0
Contact Mailing Address	600 N. Marienfeld. St., Suite 700, Midland, TX 79701		

Location of Release Source

Latitude 32.1748 Longitude -103.0959

(Nad 83 in decimal degrees to 5 decimal places)

Site Name 2C-3-4	Site Type Pipeline
Date Release Discovered 03/06/19	API# *(if applicable)* NA

Unit Letter	Section	Township	Range	County
G	31	T24S	38E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☑ Private *(Name:* Willis Family Trust)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☑ Liquids **	Volume Released (bbls) ** 9.4	Volume Recovered (bbls) None
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No ☑ N/A
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was attributed to the failure of a segment of buried natural gas pipeline as a result of corrosion.

**What type of liquids release above?

AB

State of New Mexico
Oil Conservation Division

Incident ID	0 NAB1908835620
District RP	0 1RP-5410
Facility ID	0 fAB1908835112
Application ID	0 pAB1908835332

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☑ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means? (phone, email, etc)?	

Initial Response

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

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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11 (A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Carolyn Blackaller
Title: Sr. Environmental Specialist
Signature: Carolyn Blackaller
Date: 3/20/2019
email: carolyn.blackaller@energytransfer.com
Telephone: 817-302-9766

OCD Only

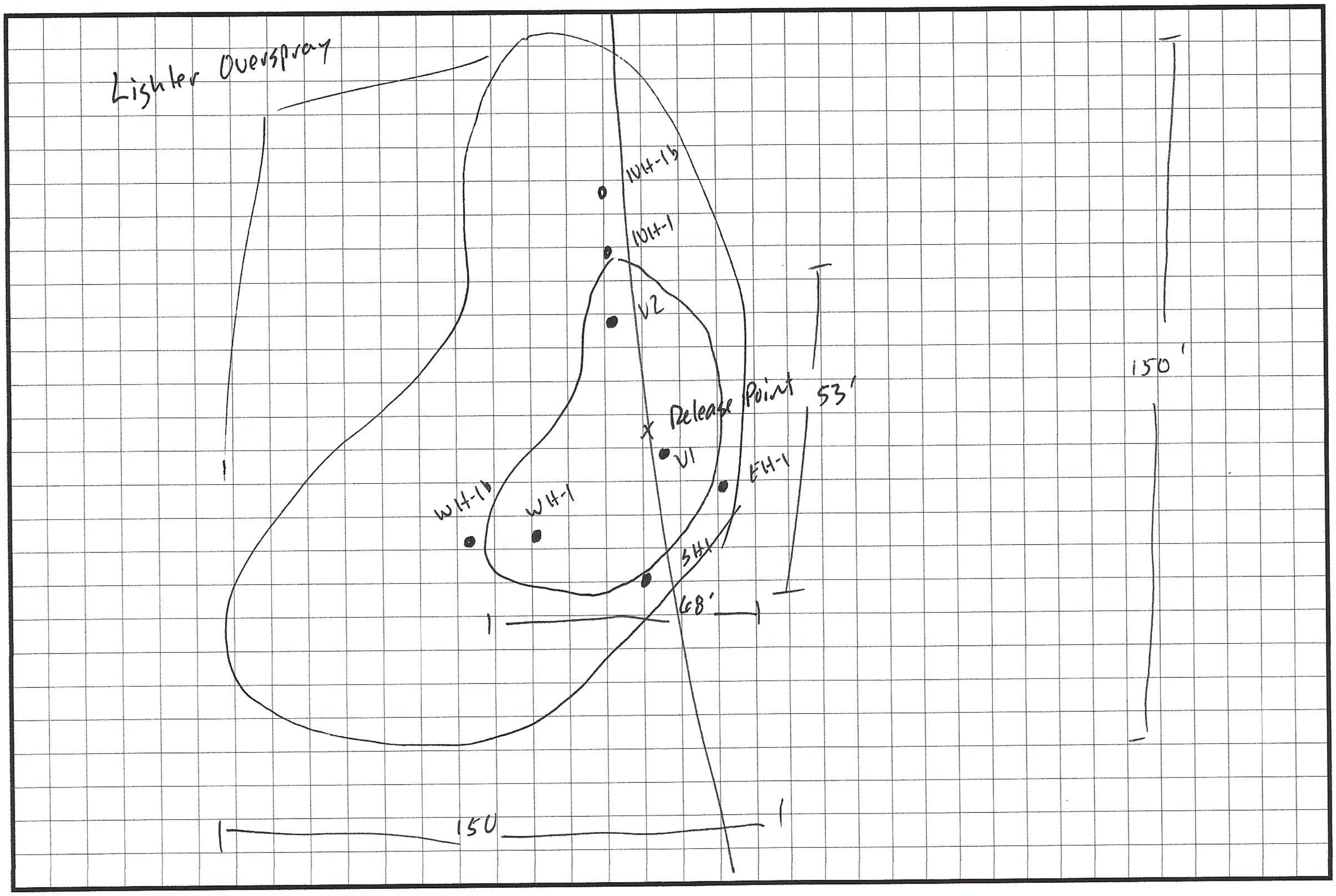
Received by: Amalia Barrazante
Date: 3/29/2019

ATTACHMENT #9
Field Data

FIELD NOTES

Site Name: 2C-3-4

Date: 3/27/2019



Map / Measure affected area
Delineate Site, Hit Rock @ 6'
Field Screen Samples

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

SAMPLE LOG

Site Name: 2C-3-4

Date: 8/27/19

Sample ID	Latitude	Longitude	Chloride	Odor
V-1@0-6"	32.17457	-103.09588	NA NR	Strong
V-1@4'	"	"	NA NR	Moderate
V-1@6'-R	"	"	<128	Moderate
V-2@0-6"	32.174465	-103.09594	< NR	Strong
V-2@2'	"	"	NA NR	
V-2@4'	"	"	<128	None/Slight?
NH-1@0-6"	32.17471	-103.09591	N/A Silty	
NH-1@20"	"	"	N/A Silty	None
NH-1b@0-6	32.17477	-103.09593	N/A Silty	None
NH-1b@12"	"	"	N/A Silty	None
EH-1@0-6"	32.174466	-103.09582	N/A Silty	None
EH-1@24"	"	"	<128	None
SH-1@0-6"	32.174465	-103.09590	N/A Silty	None
SH-1@24'	"	"	N/A Silty	None
WH-1@0-6"	32.174464	103.09600	N/A Silty	
WH-1@24"	"	"	N/A Silty	None
WH-1b@0-6"	32.174467	103.09608	N/A Silty	None
WH-1b@24"	"	"	N/A Silty	None

State of New Mexico
Oil Conservation Division

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: Dean Ericson Title: Sr. Environmental Specialist

Signature: Dean R Ericson Date: 8/24/2019

email: dean.ericson@energytransfer.com Telephone: 817-302-9573

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: _____