

January 24, 2019

Incident ID pending
District RP pending
Facility ID pending
Application ID pending

Christina Hernandez
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1625 French Drive
Hobbs, NM 88240

Re: Site Assessment Report and Proposed Remediation Plan

Site Name: 2B Pipeline

GPS: Latitude: 32.17124 Longitude: -103.19349

Legals: UL "I", Sec. 31, T24S, R37E

Lea County, New Mexico
NMOCD Ref. No. pending

Lowry Environmental & Associates, LLC (LEA), on behalf of ETC Texas Pipeline, Ltd., has prepared this Site Assessment Report and Proposed Remediation Plan for the Release Site known as the 2B Pipeline. Details of the release are summarized on the table below:

Nature and Volume of Release						
Date Release Discovered	12/24/2018	Source of Release	Pipeline			
		Volume Released	95 bbls (Condensate)			
Type of Release	Condensate & Natural Gas	volulile Releaseu	24.738 Mscf (Gas)			
		Volume Recovered	None			
Cause of Release						
t.						
The release affected an area	west of and within a pipeline right-o		000 sq. ft.			
The release affected an area	west of and within a pipeline right-o		000 sq. ft.			
The release affected an area	If YES, for what reasons (s) is this		·			
Was this a major release? Yes	If YES, for what reasons (s) is this	s considered a major release? ed release of a volume of liquids	s exceeding 25 bbls.			

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 average 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 database suggested the presence of 1 water well (CP00494) 1,120 Ft. 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 I	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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INITIAL SITE ASSESSMENT

On **January 8, 2019,** LEA conducted an initial site assessment. During the initial site assessment, twelve (12) representative soil samples (V1 6", V1 4'-R, V2 0-3", V2 3-6", V3 0-3", V3 18"-R, V4 0-3", V4 12"-R, V5 0-3", V5 18"-R, V6 0-3" and V6 12") were collected from within the release margins in an effort to determined the vertical extent of soil impacts. In addition, twenty-four (24) soil samples (SH1 0-3", SH1 2', EH1 0-3", EH1 2', NH1 6", NH1 2', NH2 0-3", NH2 6", SH2 0-3", SH2 6", WH4 0-3", WH4 12", EH4 0-3", EH4 12", WH5 0-3", WH5 12", EH5 0-3", EH5 12", WH6 0-3", WH6 12", EH6 0-3", EH6 12", NH6 0-3" and NH6 12") were collected from the inferred edges of the affected area in an effort to determine the horizontal extent of soil impact. 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.

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(s)										
				SW 846	5 8021B			4500Cl			
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
V1 6"	1/8/19	6"	In-Situ	0.206	2.30	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
V1 4'-R	1/8/19	4'	In-Situ	<0.050	0.314	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SH1 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SH1 2'	1/8/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
EH1 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
EH1 2'	1/8/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
NH1 6"	1/8/19	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
NH1 2'	1/8/19	2'	In-Situ	<0.050	0.405	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
V2 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
V2 3-6"	1/8/19	3-6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
NH2 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
NH2 6"	1/8/19	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SH2 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SH2 6"	1/8/19	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
V3 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
V3 18"-R	1/8/19	18"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
V4 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
V4 12"-R	1/8/19	12"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
WH4 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
WH4 12"	1/8/19	12"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
EH4 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
EH4 12"	1/8/19	12"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
V5 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	Closure C	criteria		10	50	-	-	1,000	-	2,500	10,000

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	Concentrations of BTEX, TPH and/or Chloride in Soil - Initial Assessment (cont.)										
				SW 846	5 8021B		SV	V 846 8015M E	xt.		4500Cl
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	$\begin{aligned} GRO + DRO \\ C_6\text{-}C_{28} \\ (mg/kg) \end{aligned}$	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
V5 18"-R	1/8/19	18"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
WH5 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
WH5 12"	1/8/19	12"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
EH5 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
EH5 12"	1/8/19	12"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
V6 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
V6 12"	1/8/19	12"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
WH6 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
WH6 12"	1/8/19	12"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
EH6 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
EH6 12"	1/8/19	12"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
NH6 0-3"	1/8/19	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
NH6 12"	1/8/19	12"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
	Closure Criteria			10	50	-	-	1,000	ı	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.

PROPOSED REMEDIATION PLAN

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

- •Utilizing mechanical equipment, excavated visibly stained soil from the area adjacent to the release point and within the oilfield access road.
- •Vegetation within the release flow path will be monitored for "die off". In the event vegetation is lost, affected areas will be "spot dug", backfilled and seeded in accordance with the landowner. ETC maintains scraping the affect 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 visibly stained soil from the area adjacent to the release point and within the oilfield access road, the excavated area adjacent to the release point 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.

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SAMPLING PLAN

Laboratory analytical results from soil samples collected during the initial release assessment indicates soil was not affected above the NMOCD Closure Criteria; no additional soil samples are necessary.

TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed **within 90 days** of receiving necessary approval(s) of this Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately **60 cubic yards** is in need of removal.

RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

If you have any questions, or need any additional information, please feel free to contact Dean Ericson or the undersigned by phone or email.

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

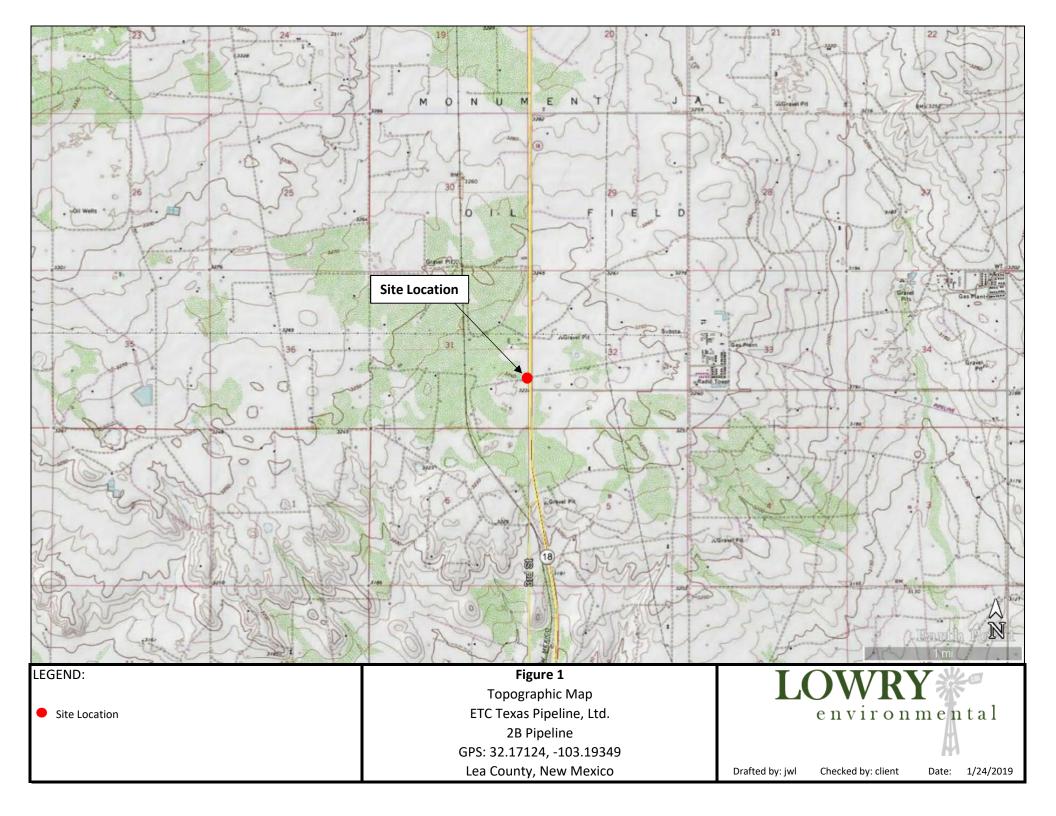
This document has been prepared on behalf of ETC Texas Pipeline, Ltd.. Use of information contained in this report, including exhibits and attachments, by any other party without the consent of LEA and/or ETC Texas Pipeline, Ltd. is prohibited.

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.

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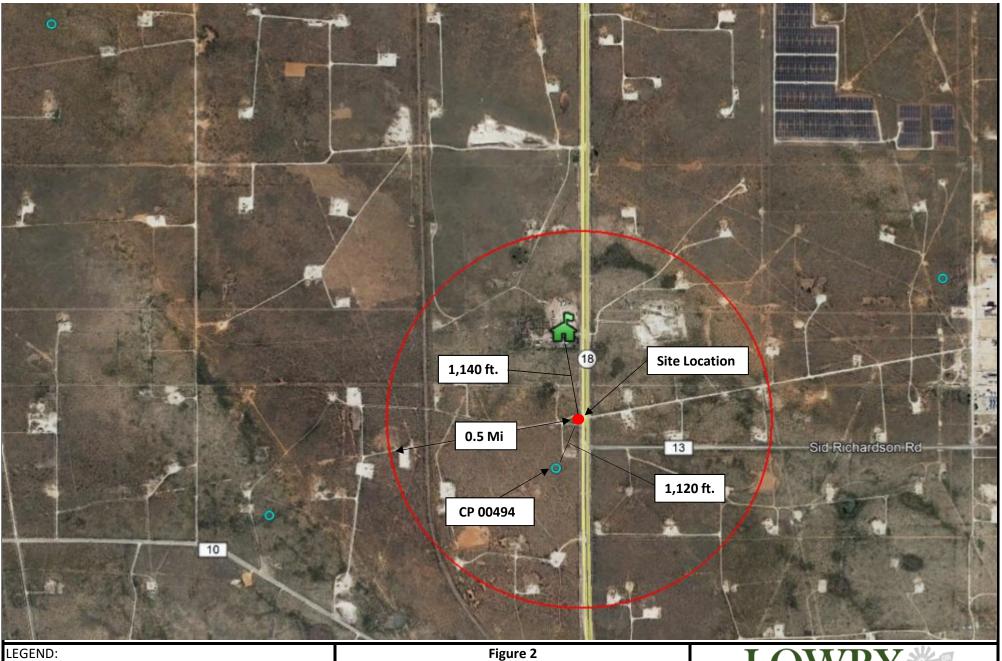
ATTACHMENT #1

Figure 1 - Topographic Map



ATTACHMENT #2

Figure 2 - Aerial Map



Site Location

Fresh Water Well



100-Year Floodplain

High/Critical Karst



Non-Inustrial Building Subsurface Mine

Aerial Map ETC Texas Pipeline, Ltd. 2B Pipeline GPS: 32.17124, -103.19349 Lea County, New Mexico

environmental

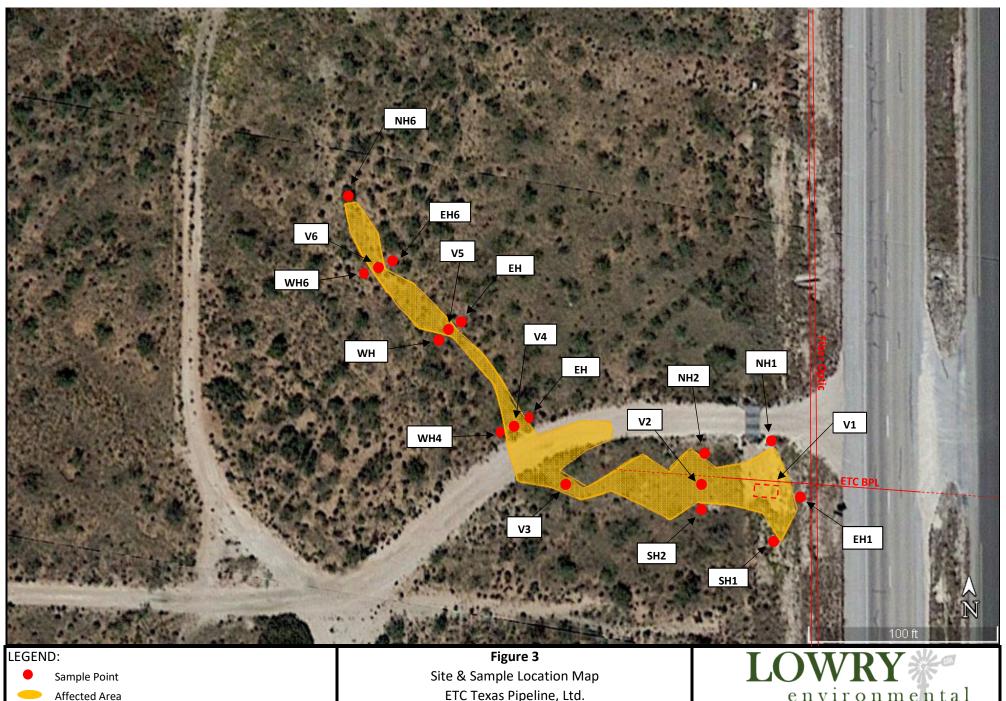
Drafted by: jwl

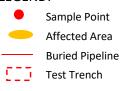
Checked by: client

Date: 1/24/2019

ATTACHMENT #3

Figure 3 - Site & Sample Location Map

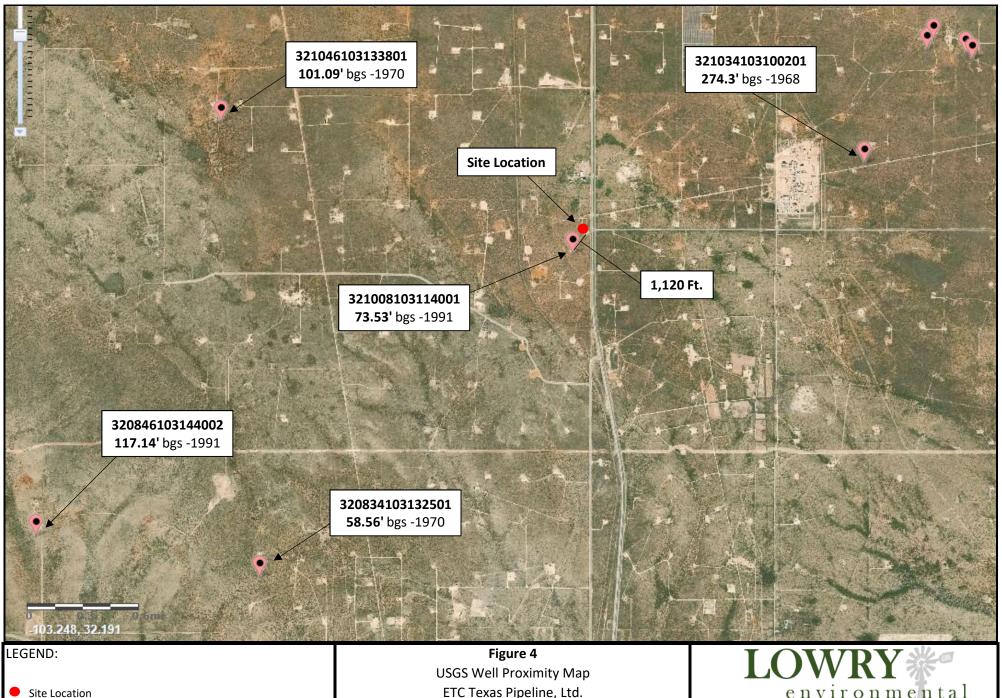




Site & Sample Location Map ETC Texas Pipeline, Ltd. 2B Pipeline GPS: 32.17124, -103.19349 Lea County, New Mexico



ATTACHMENT #4 Depth to Groundwater Information



ETC Texas Pipeline, Ltd. 2B Pipeline GPS: 32.17124, -103.19349 Lea County, New Mexico

environmental

Drafted by: jwl

Checked by: client

Date: 1/24/2019



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)

		Sub-		o	o	o								Water
POD Number	Code	basin	County	64	16	4				X	Y	-	hWellDepthWater	
<u>CP 00494 POD1</u>		CP	LE	2	4	4	31	24S	37E	670239	3560628*	228	500	
<u>CP 00846 POD1</u>		CP	LE		4	2	06	25S	37E	670154	3559725*	1126	600	
<u>CP 00549 POD1</u>		CP	XX	4	3	3	31	24S	37E	669051	3560409*	1349	200	
<u>CP 00517 POD1</u>		CP	LE	1	2	3	05	25S	37E	670863	3559434*	1501	4900	
<u>CP 00507</u>		CP	LE	3	3	2	05	25S	37E	671259	3559642*	1514	4900	
<u>CP 00493 POD1</u>		CP	LE	2	4	2	32	24S	37E	671834	3561458*	1626	500	

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 670330 **Northing (Y):** 3560838 **Radius:** 1680

*UTM location was derived from PLSS - see Help

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

1/21/19 3:35 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

2 4 4 31 24S 37E

670239 3560628*

28*

Driller License: Driller Company:

Driller Name: W. PERRY SMITH

CP 00494 POD1

Drill Start Date:05/04/1971Drill Finish Date:05/13/1971Plug Date:Log File Date:08/04/1971PCW Rcv Date:Source:

Pump Type:Pipe Discharge Size:Estimated Yield:Casing Size:8.00Depth Well:500 feetDepth Water:

Water Bearing Stratifications: Top Bottom Description

75 100 Shallow Alluvium/Basin Fill
120 135 Shallow Alluvium/Basin Fill

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

1/21/19 3:38 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help





National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	✓ United States	~	GO

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- Please see news on new formats
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 321008103114001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321008103114001 24S.37E.31.243442

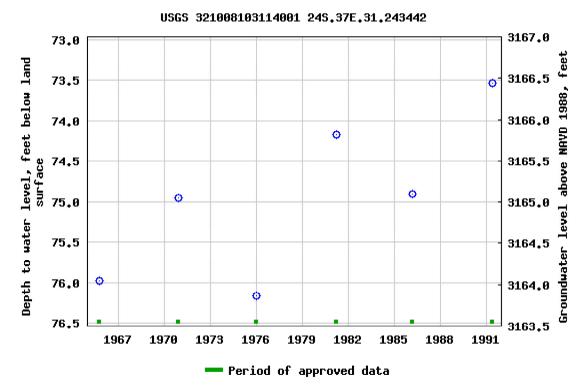
Available data for this site Groundwater: Field measurements

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°10'08", Longitude 103°11'40" NAD27
Land-surface elevation 3,240 feet above NAVD88
The depth of the well is 100 feet below land surface.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

	Table of data
	Tab-separated data
	Graph of data
Į	

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
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<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2019-01-21 17:53:12 EST

1.04 0.91 nadww01







National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	✓ United States	~	GO

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- Please see news on new formats
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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 321034103100201

Minimum number of levels = 1

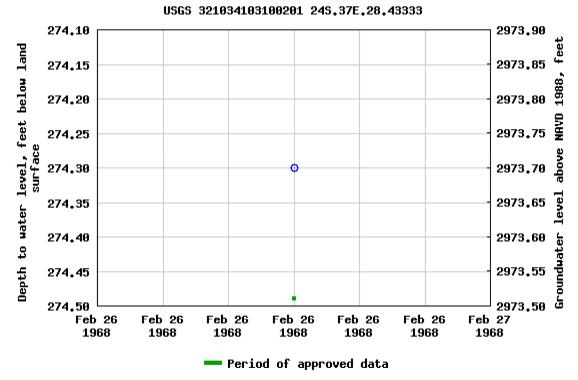
Save file of selected sites to local disk for future upload

USGS 321034103100201 24S.37E.28.43333

Available data for this site	Groundwater:	Field measurements	GO	
Lea County, New Mexico				_
Hydrologic Unit Code 13070	0007			
Latitude 32°10'34", Longit	ude 103°10)'02" NAD27		
Land-surface elevation 3,24	18 feet abov	ve NAVD88		
The depth of the well is 798	3 feet below	land surface.		
This well is completed in th	e Santa Ros	sa Sandstone (23	31SNRS)	local aquifer.

Output formats

Table	of data		
Tab-s	separated data		
Graph	n of data		



Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data?
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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2019-01-21 17:59:22 EST

0.99 0.87 nadww01





National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	$\overline{}$	United States	~	GO

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- Please see news on new formats
 Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 320834103132501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320834103132501 25S.36E.12.123142

Lea County, New Mexico Latitude 32°08'34", Longitude 103°13'25" NAD27

Land-surface elevation 3,173 feet above NAVD88 The depth of the well is 80 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
1964-11-30		D	57.37			2		U		
1965-11-30		D	57.37			2		U		
1968-03-27		D	56.22			2		U		
1970-12-09		D	58.56			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	Α	Approved for publication Processing and review completed.		

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

Plug-Ins Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2019-01-21 18:01:41 EST 0.58 0.49 nadww01







National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	✓ United States	~	GO

Click to hideNews Bulletins

- Due to a lapse in appropriations, the majority of USGS websites may not be up to date and may not reflect current conditions. Websites displaying realtime data, such as Earthquake and Water and information needed for public health and safety will be updated with limited support. Additionally, USGS will not be able to respond to inquiries until appropriations are enacted. For more information, please see www.doi.gov/shutdown.
- Please see news on new formats
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 320846103144002

Minimum number of levels = 1

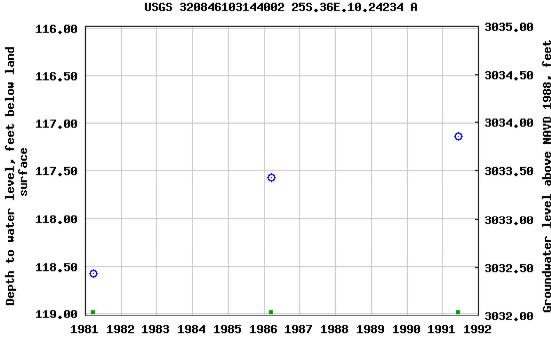
Save file of selected sites to local disk for future upload

USGS 320846103144002 25S.36E.10.24234 A

Available data for this site	Groundwater:	Field measurements	GO	
Lea County, New Mexico				
Hydrologic Unit Code				
Latitude 32°08'46", Longit	ude 103°14	1'40" NAD27		
Land-surface elevation 3,1	51 feet abo	ve NAVD88		
This well is completed in th	e Santa Ro	sa Sandstone (23	31SNRS) local a	aquifer.
• • • • • • • • • • • • • • • • • • •		•	,	•

Output formats

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



- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

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

Accessibility Plug-Ins FOIA Privacy Policies and Notices

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

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team

Page Last Modified: 2019-01-21 18:03:38 EST

1.04 0.92 nadww01







National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	✓ United States	~	GO

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- Please see news on new formats
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 321046103133801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321046103133801 24S.36E.26.44223

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

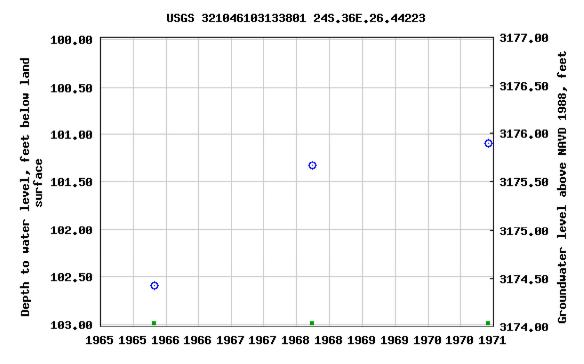
Latitude 32°10'46", Longitude 103°13'38" NAD27

Land-surface elevation 3,277 feet above NAVD88

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

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



- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

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

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

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team

Page Last Modified: 2019-01-21 18:11:20 EST

1.03 0.93 nadww01



ATTACHMENT #5 Soil Profile

SOIL PROFILE

Site Name: 2B (Hwy 18)

Date: 1 8 2019

Description	Depth (ft. bgs)
Brown top Soil w/ Roull	 1
	 2
Calicly / Calruste Starolpan	3
	4 TP
	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
	 1
	 2
	 3
	 4
	 5
	 6
	 7
	8
	9
	О

ATTACHMENT #6 Laboratory Analytical Reports



January 16, 2019

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2B PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 01/09/19 11:55.

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/ga/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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/09/2019 Reported: 01/16/2019

01/16/2019 2B PIPELINE

Project Name: 2B PIPELINE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 01/08/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: V1 6" (H900052-01)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.206	0.050	01/15/2019	ND	2.11	106	2.00	1.22	
Toluene*	0.829	0.050	01/15/2019	ND	2.03	102	2.00	0.860	
Ethylbenzene*	0.245	0.050	01/15/2019	ND	2.00	100	2.00	1.07	
Total Xylenes*	1.02	0.150	01/15/2019	ND	6.09	102	6.00	0.840	
Total BTEX	2.30	0.300	01/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/11/2019	ND	416	104	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	01/10/2019	ND	220	110	200	8.49	
DRO >C10-C28*	<10.0	10.0	01/10/2019	ND	208	104	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	01/10/2019	ND					
Surrogate: 1-Chlorooctane	84.3	% 41-142	•						
Surrogate: 1-Chlorooctadecane	78.5	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Received: 01/09/2019 Sampling Date:

01/08/2019

Reported:

01/16/2019

Sampling Type:

Soil

Project Name: Project Number: **2B PIPELINE** NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

LEA COUNTY, NM

Sample ID: V1 4'-R (H900052-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2019	ND	2.11	106	2.00	1.22	
Toluene*	<0.050	0.050	01/15/2019	ND	2.03	102	2.00	0.860	
Ethylbenzene*	0.067	0.050	01/15/2019	ND	2.00	100	2.00	1.07	
Total Xylenes*	0.246	0.150	01/15/2019	ND	6.09	102	6.00	0.840	
Total BTEX	0.314	0.300	01/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/11/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2019	ND	220	110	200	8.49	
DRO >C10-C28*	<10.0	10.0	01/10/2019	ND	208	104	200	9.94	
EXT DRO >C28-C36	<10.0	10.0	01/10/2019	ND					
Surrogate: 1-Chlorooctane	86.0	% 41-142							
Surrogate: 1-Chlorooctadecane	80.5	% 37.6-14	7						

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	Company Name: ETC Texas Pipeline, Ltd.
ANALISIS REGOEST	Joel Lowry P.O.#:
eline, Ltd.	Marienfeld. St., Suite 700, Midland, TX 79701 Com
	Attn: Dean E
	Addres
	Project #: Project Owner: City:
	Project Location: Lea County, New Mexico Phone #:
	Sampler Name: Fax #:
6	FOR LAB USE ONLY MATRIX PRESERV. SAMPLING
е	WATER VATER SE: DL
Chlorid TPH BTEX 8	(G)RAB C # CONTA GROUND WASTEW SOIL OIL SLUDGE OTHER: ACID/BAS ICE / COC OTHER:
×	×
×	
client for the control of the applicable uses the control of the applicable of the applicable of the control of	T-CASE MV IE: Leading and Lamages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, 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 infinitation, business interruptions, loss of use, or loss of profits incurred by field; its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such dain is based uson any of the above stated researce or otherwise.
Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #:	Date: Received By:
oel@lowryenvironme	Mun 11:55 Clock Jundon
dean.ericson@energytransfer.com	Time:
dean.ericson@energytransfer.com	Received By: Received By: Sample Condition CHE¢ Cool Intact Unit



January 22, 2019

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2B PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 01/09/19 11:55.

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/ga/lab accredited 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)

Celey D. Keine

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Reported:

22-Jan-19 12:12



Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

anagen. DEAN ERIC

Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SH-1 0-3"	H900051-01	Soil	08-Jan-19 00:00	09-Jan-19 11:55
SH-1 2'	H900051-02	Soil	08-Jan-19 00:00	09-Jan-19 11:55
EH-1 0-3"	H900051-03	Soil	08-Jan-19 00:00	09-Jan-19 11:55
EH-1 2'	H900051-04	Soil	08-Jan-19 00:00	09-Jan-19 11:55
NH-1 6"	H900051-05	Soil	08-Jan-19 00:00	09-Jan-19 11:55
NH-1 2'	H900051-06	Soil	08-Jan-19 00:00	09-Jan-19 11:55
/2 0-3"	H900051-07	Soil	08-Jan-19 00:00	09-Jan-19 11:55
/2 3-6"	H900051-08	Soil	08-Jan-19 00:00	09-Jan-19 11:55
NH-2 0-3"	H900051-09	Soil	08-Jan-19 00:00	09-Jan-19 11:55
NH-2 6"	H900051-10	Soil	08-Jan-19 00:00	09-Jan-19 11:55
SH-2 0-3"	H900051-11	Soil	08-Jan-19 00:00	09-Jan-19 11:55
SH-2 6"	H900051-12	Soil	08-Jan-19 00:00	09-Jan-19 11:55
/3 0-3"	H900051-13	Soil	08-Jan-19 00:00	09-Jan-19 11:55
/3 18"-R	H900051-14	Soil	08-Jan-19 00:00	09-Jan-19 11:55
/4 0-3"	H900051-15	Soil	08-Jan-19 00:00	09-Jan-19 11:55
/4 12"-R	H900051-16	Soil	08-Jan-19 00:00	09-Jan-19 11:55
VH4 0-3"	H900051-17	Soil	08-Jan-19 00:00	09-Jan-19 11:55
WH4 12"	H900051-18	Soil	08-Jan-19 00:00	09-Jan-19 11:55
EH4 0-3"	H900051-19	Soil	08-Jan-19 00:00	09-Jan-19 11:55
EH4 12	H900051-20	Soil	08-Jan-19 00:00	09-Jan-19 11:55
/5 0-3"	H900051-21	Soil	08-Jan-19 00:00	09-Jan-19 11:55
/5 18"-R	H900051-22	Soil	08-Jan-19 00:00	09-Jan-19 11:55
WH5 0-3"	H900051-23	Soil	08-Jan-19 00:00	09-Jan-19 11:55
WH5 12"	H900051-24	Soil	08-Jan-19 00:00	09-Jan-19 11:55
EH5 0-3"	H900051-25	Soil	08-Jan-19 00:00	09-Jan-19 11:55
EH5 12"	H900051-26	Soil	08-Jan-19 00:00	09-Jan-19 11:55
/6 0-3"	H900051-27	Soil	08-Jan-19 00:00	09-Jan-19 11:55

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ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252		Project: Project Number: Project Manager: Fax To:		Reported: 22-Jan-19 12:12
V6 12"	H900051-28	Soil	08-Jan-19 00:00	09-Jan-19 11:55
WH-6 0-3"	H900051-29	Soil	08-Jan-19 00:00	09-Jan-19 11:55
WH-6 12"	H900051-30	Soil	08-Jan-19 00:00	09-Jan-19 11:55
EH6 0-3"	H900051-31	Soil	08-Jan-19 00:00	09-Jan-19 11:55
EH6 12"	H900051-32	Soil	08-Jan-19 00:00	09-Jan-19 11:55
NH6 0-3"	H900051-33	Soil	08-Jan-19 00:00	09-Jan-19 11:55
NH6 12"	H900051-34	Soil	08-Jan-19 00:00	09-Jan-19 11:55

Samples that were on hold were released for analysis on 01/21/19 as per Joel. This is the revised report including the hold analysis for samples -07, -13, -15, -21 and -27. This report will replace the one sent on 01/16/19.

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22-Jan-19 12:12



Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN

Project Manager: DEAN ERICSON

Fax To:

SH-1 0-3" H900051-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.6 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
Surrogate: 1-Chlorooctane	<u> </u>		84.9 %	41-	142	9010908	MS	09-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			84.4 %	37.6	-147	9010908	MS	09-Jan-19	8015B	

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ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

lanager: DEAN ERICSON Fax To: Reported: 22-Jan-19 12:12

SH-1 2' H900051-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	0.069		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		102 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
Surrogate: 1-Chlorooctane			98.5 %	41-	142	9010908	MS	09-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			95.6 %	37.6	-147	9010908	MS	09-Jan-19	8015B	

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

Project: 2B PIPELINE Project Number: NONE GIVEN

Project Manager: DEAN ERICSON

Fax To:

Reported: 22-Jan-19 12:12

EH-1 0-3" H900051-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
Surrogate: 1-Chlorooctane			90.5 %	41-	142	9010908	MS	09-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			90.5 %	37.6	-147	9010908	MS	09-Jan-19	8015B	

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ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Reported: 22-Jan-19 12:12

Fax To:

EH-1 2' H900051-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		99.6 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
Surrogate: 1-Chlorooctane			93.4 %	41-	142	9010908	MS	09-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			93.0 %	37.6	-147	9010908	MS	09-Jan-19	8015B	

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Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

NH-1 6" H900051-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		98.0 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010908	MS	09-Jan-19	8015B	
Surrogate: 1-Chlorooctane			93.0 %	41	142	9010908	MS	09-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			93.2 %	37.6	-147	9010908	MS	09-Jan-19	8015B	

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Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN

Project Manager: DEAN ERICSON

Fax To:

NH-1 2' H900051-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	0.405		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	0.405		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		100 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010908	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010908	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010908	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			87.1 %	41-	142	9010908	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			95.2 %	37.6	-147	9010908	MS	10-Jan-19	8015B	

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

Project: 2B PIPELINE Project Number: NONE GIVEN

Project Manager: DEAN ERICSON

Fax To:

Reported: 22-Jan-19 12:12

V2 0-3" H900051-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9012208	AC	22-Jan-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9012115	ms	21-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9012115	ms	21-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9012115	ms	21-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9012115	ms	21-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9012115	ms	21-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		101 %	73.3	-129	9012115	ms	21-Jan-19	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9012114	MS	21-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9012114	MS	21-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9012114	MS	21-Jan-19	8015B	
Surrogate: 1-Chlorooctane			95.4 %	41-	142	9012114	MS	21-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			97.3 %	37.6	-147	9012114	MS	21-Jan-19	8015B	

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Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

V2 3-6" H900051-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)	·	100 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			94.0 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			94.7 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

NH-2 0-3" H900051-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			90.1 %	41	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			88.1 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

GIVEN 22-Jan-19 12:12 FRICSON

Fax To:

NH-2 6" H900051-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds b	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		101 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by G	SC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			91.2 %	41	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			90.9 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Fax To:

Reported: 22-Jan-19 12:12

SH-2 0-3" H900051-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			93.3 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			94.8 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

ianager: DEAN ERI Fax To: Reported: 22-Jan-19 12:12

SH-2 6" H900051-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		99.0 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			92.2 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			92.5 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

V3 0-3" H900051-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9012208	AC	22-Jan-19	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9012115	ms	21-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9012115	ms	21-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9012115	ms	21-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9012115	ms	21-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9012115	ms	21-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		100 %	73.3	-129	9012115	ms	21-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9012114	MS	21-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9012114	MS	21-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9012114	MS	21-Jan-19	8015B	
Surrogate: 1-Chlorooctane			97.8 %	41-	142	9012114	MS	21-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			99.2 %	37.6	-147	9012114	MS	21-Jan-19	8015B	

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Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Reported: 22-Jan-19 12:12

Fax To:

V3 18"-R H900051-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		100 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			91.8 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			90.7 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

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Fax To:

V4 0-3" H900051-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9012208	AC	22-Jan-19	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3	-129	9012115	ms	22-Jan-19	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9012114	MS	21-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9012114	MS	21-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9012114	MS	21-Jan-19	8015B	
Surrogate: 1-Chlorooctane			98.0 %	41-	142	9012114	MS	21-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			99.0 %	37.6	-147	9012114	MS	21-Jan-19	8015B	

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Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Fax To:

Reported: 22-Jan-19 12:12

V4 12"-R H900051-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	ID)		98.6 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			93.0 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			92.9 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

lanager: DEAN ERICSON Fax To: Reported: 22-Jan-19 12:12

WH4 0-3"

H900051-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9011004	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.0 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			90.0 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			91.4 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

WH4 12" H900051-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (Pla	D)		98.6 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			87.1 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			91.3 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Fax To:

Reported: 22-Jan-19 12:12

EH4 0-3" H900051-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			87.6 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			89.0 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

lanager: DEAN ERICS Fax To: Reported: 22-Jan-19 12:12

EH4 12 H900051-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		98.2 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			90.2 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			92.9 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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22-Jan-19 12:12



Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

V5 0-3" H900051-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9012208	AC	22-Jan-19	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3	-129	9012115	ms	22-Jan-19	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9012114	MS	21-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9012114	MS	21-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9012114	MS	21-Jan-19	8015B	
Surrogate: 1-Chlorooctane			97.2 %	41-	142	9012114	MS	21-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			98.0 %	37.6	-147	9012114	MS	21-Jan-19	8015B	

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Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

V5 18"-R H900051-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PII	0)		97.9 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			94.0 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			97.8 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

WH5 0-3" H900051-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.1 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			95.4 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			96.2 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

WH5 12" H900051-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011108	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.3 %	73.3	-129	9011108	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			93.7 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			96.3 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Reported: 22-Jan-19 12:12

Fax To:

EH5 0-3" H900051-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method S	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011109	ms	14-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011109	ms	14-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011109	ms	14-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011109	ms	14-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011109	ms	14-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.6 %	73.3	-129	9011109	ms	14-Jan-19	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			92.3 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			94.3 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Fax To:

Reported: 22-Jan-19 12:12

EH5 12" H900051-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		99.4 %	73.3	-129	9011109	ms	15-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			94.6 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			96.5 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

SIVEN 22-Jan-19 12:12

Reported:

Fax To:

V6 0-3" H900051-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9012208	AC	22-Jan-19	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method S	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9012115	ms	22-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	73.3	-129	9012115	ms	22-Jan-19	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9012114	MS	22-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9012114	MS	22-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9012114	MS	22-Jan-19	8015B	
Surrogate: 1-Chlorooctane			103 %	41-	142	9012114	MS	22-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			103 %	37.6	-147	9012114	MS	22-Jan-19	8015B	

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ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Reported: 22-Jan-19 12:12

Fax To:

V6 12" H900051-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.6 %	73.3	-129	9011109	ms	15-Jan-19	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			91.9 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			93.6 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Fax To:

Reported: 22-Jan-19 12:12

WH-6 0-3" H900051-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.1 %	73.3	-129	9011109	ms	15-Jan-19	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			91.9 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			93.5 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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22-Jan-19 12:12



Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN

Project Manager: DEAN ERICSON

Fax To:

WH-6 12" H900051-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.3 %	73.3	-129	9011109	ms	15-Jan-19	8021B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			89.3 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			90.0 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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22-Jan-19 12:12



Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

EH6 0-3" H900051-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.5 %	73.3	-129	9011109	ms	15-Jan-19	8021B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			94.7 %	41-	142	9010913	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			95.9 %	37.6	-147	9010913	MS	10-Jan-19	8015B	

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

Reported: 22-Jan-19 12:12

EH6 12" H900051-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		97.2 %	73.3	-129	9011109	ms	15-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9011001	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9011001	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9011001	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			92.7 %	41-	142	9011001	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			93.4 %	37.6	-147	9011001	MS	10-Jan-19	8015B	

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22-Jan-19 12:12



Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

NH6 0-3" H900051-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.0 %	73.3	-129	9011109	ms	15-Jan-19	8021B	
Petroleum Hydrocarbons by GO	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9011001	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9011001	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9011001	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			89.1 %	41-	142	9011001	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			88.8 %	37.6	-147	9011001	MS	10-Jan-19	8015B	

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22-Jan-19 12:12



Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN EDICSON

Project Manager: DEAN ERICSON

Fax To:

NH6 12" H900051-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9011008	AC	11-Jan-19	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9011109	ms	15-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.3 %	73.3	-129	9011109	ms	15-Jan-19	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9011005	MS	10-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9011005	MS	10-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9011005	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctane			90.8 %	41-	142	9011005	MS	10-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			91.3 %	37.6	-147	9011005	MS	10-Jan-19	8015B	

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

Reported: 22-Jan-19 12:12

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9011004 - General Prep - Wet Chem										
Blank (9011004-BLK1)				Prepared &	: Analyzed:	10-Jan-19				
Chloride	ND	16.0	mg/kg							
LCS (9011004-BS1)				Prepared &	: Analyzed:	10-Jan-19				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (9011004-BSD1)				Prepared &	Analyzed:	10-Jan-19				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Batch 9011008 - General Prep - Wet Chem										
Blank (9011008-BLK1)				Prepared &	: Analyzed:	10-Jan-19				
Chloride	ND	16.0	mg/kg							
LCS (9011008-BS1)				Prepared &	: Analyzed:	10-Jan-19				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (9011008-BSD1)				Prepared &	: Analyzed:	10-Jan-19				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Batch 9012208 - General Prep - Wet Chem										
Blank (9012208-BLK1)				Prepared &	: Analyzed:	22-Jan-19				
Chloride	ND	16.0	mg/kg							
LCS (9012208-BS1)				Prepared &	: Analyzed:	22-Jan-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: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Reported: 22-Jan-19 12:12

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 9012208 - General Prep - Wet Chem

LCS Dup (9012208-BSD1)		Prepared & Analyzed: 22-Jan-19						
Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20

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%REC



Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Spike

Source

Reported: 22-Jan-19 12:12

RPD

Fax To:

Reporting

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9011108 - Volatiles										
Blank (9011108-BLK1)				Prepared:	11-Jan-19 A	nalyzed: 1	4-Jan-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)	0.100		mg/kg	0.100		100	73.3-129			
LCS (9011108-BS1)				Prepared: 1	11-Jan-19 A	nalyzed: 1	4-Jan-19			
Benzene	2.32	0.050	mg/kg	2.00		116	72.2-131			
Toluene	2.24	0.050	mg/kg	2.00		112	71.7-126			
Ethylbenzene	2.19	0.050	mg/kg	2.00		110	68.9-126			
Total Xylenes	6.72	0.150	mg/kg	6.00		112	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0982		mg/kg	0.100		98.2	73.3-129			
LCS Dup (9011108-BSD1)				Prepared: 1	11-Jan-19 A	nalyzed: 1	4-Jan-19			
Benzene	2.35	0.050	mg/kg	2.00		118	72.2-131	1.44	6.91	
Toluene	2.26	0.050	mg/kg	2.00		113	71.7-126	0.766	7.12	
Ethylbenzene	2.20	0.050	mg/kg	2.00		110	68.9-126	0.449	7.88	
Total Xylenes	6.82	0.150	mg/kg	6.00		114	71.4-125	1.43	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.102		mg/kg	0.100		102	73.3-129			
Batch 9011109 - Volatiles										
Blank (9011109-BLK1)				Prepared:	11-Jan-19 A	nalyzed: 1	4-Jan-19			
Benzene	ND	0.050	mg/kg							

Cardinal Laboratories

ND

ND

ND

ND

0.0977

0.050

0.050

0.150

0.300

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

0.100

97.7

73.3-129

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Celeg D. Keine

Toluene

Ethylbenzene

Total Xylenes

Total BTEX

Surrogate: 4-Bromofluorobenzene (PID)



Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Spike

Source

Reported: 22-Jan-19 12:12

%REC

RPD

Fax To:

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared: 1	1-Jan-19 A	nalyzed: 14	4-Jan-19			
2.11	0.050	mg/kg	2.00		106	72.2-131			
2.03	0.050	mg/kg	2.00		102	71.7-126			
2.00	0.050	mg/kg	2.00		100	68.9-126			
6.09	0.150	mg/kg	6.00		102	71.4-125			
0.0967		mg/kg	0.100		96.7	73.3-129			
			Prepared: 1	1-Jan-19 A	nalyzed: 14	4-Jan-19			
2.09	0.050	mg/kg	2.00		104	72.2-131	1.22	6.91	
2.01	0.050	mg/kg	2.00		101	71.7-126	0.860	7.12	
1.98	0.050	mg/kg	2.00		99.1	68.9-126	1.07	7.88	
6.04	0.150	mg/kg	6.00		101	71.4-125	0.840	7.46	
0.0950		mg/kg	0.100		95.0	73.3-129			
			Prepared &	: Analyzed:	21-Jan-19				
ND	0.050	mg/kg							
ND	0.050	mg/kg							
ND	0.050	mg/kg							
ND	0.150	mg/kg							
ND	0.300	mg/kg							
0.100		mg/kg	0.100		100	73.3-129			
			Prepared &	: Analyzed:	21-Jan-19				
1.93	0.050	mg/kg	2.00		96.6	72.2-131			
1.86	0.050	mg/kg	2.00		92.8	71.7-126			
1.85	0.050	mg/kg	2.00		92.3	68.9-126			
5.61	0.150	mg/kg	6.00		93.4	71.4-125			
0.100		mg/kg	0.100		100	73 3_120			
	2.11 2.03 2.00 6.09 0.0967 2.09 2.01 1.98 6.04 0.0950 ND 1.93 1.86 1.85 5.61	2.11 0.050 2.03 0.050 2.00 0.050 6.09 0.150 0.0967 2.09 0.050 2.01 0.050 1.98 0.050 6.04 0.150 ND 0.050 ND 0.050 ND 0.050 ND 0.150 ND 0.300 0.100 1.93 0.050 1.86 0.050 1.85 0.050 5.61 0.150	2.11 0.050 mg/kg 2.03 0.050 mg/kg 2.00 0.050 mg/kg 6.09 0.150 mg/kg 0.0967 mg/kg 2.01 0.050 mg/kg 1.98 0.050 mg/kg 6.04 0.150 mg/kg 0.0950 mg/kg ND 0.050 mg/kg ND 0.050 mg/kg ND 0.150 mg/kg ND 0.150 mg/kg ND 0.150 mg/kg ND 0.150 mg/kg ND 0.300 mg/kg	Prepared: 1 2.11 0.050 mg/kg 2.00 2.03 0.050 mg/kg 2.00 2.00 0.050 mg/kg 2.00 6.09 0.150 mg/kg 6.00 0.0967 mg/kg 0.100 Prepared: 1 2.09 0.050 mg/kg 2.00 2.01 0.050 mg/kg 2.00 1.98 0.050 mg/kg 2.00 6.04 0.150 mg/kg 6.00 0.0950 mg/kg 0.100 Prepared & 0.0950 mg/kg 0.100 Prepared & 0.050 mg/kg 0.100 0.0950 mg/kg 0.100 Prepared & 0.150 mg/kg 0.100 Prepared & 0.150 mg/kg 0.100 Prepared & 0.150 mg/kg 0.100 Prepared & 0.100 mg/kg 0.100	Prepared: 11-Jan-19 A 2.11	Prepared: 11-Jan-19 Analyzed: 1- 2.11	Prepared: 11-Jan-19 Analyzed: 14-Jan-19 2.11 0.050 mg/kg 2.00 106 72.2-131 2.03 0.050 mg/kg 2.00 102 71.7-126 2.00 0.050 mg/kg 2.00 100 68.9-126 6.09 0.150 mg/kg 6.00 102 71.4-125 0.0967 mg/kg 0.100 96.7 73.3-129 Prepared: 11-Jan-19 Analyzed: 14-Jan-19 2.09 0.050 mg/kg 2.00 104 72.2-131 2.01 0.050 mg/kg 2.00 101 71.7-126 1.98 0.050 mg/kg 2.00 99.1 68.9-126 6.04 0.150 mg/kg 6.00 101 71.4-125 0.0950 mg/kg 0.100 95.0 73.3-129 Prepared & Analyzed: 21-Jan-19 ND 0.050 mg/kg ND 0.150 mg/kg ND 0.300 mg/kg 2.00 92.8 71.7-126 1.85 0.050 mg/kg 2.00 92.3 68.9-126 5.61 0.150 mg/kg 6.00 93.4 71.4-125	Prepared: 11-Jan-19 Analyzed: 14-Jan-19 2.11	Prepared: 11-Jan-19 Analyzed: 14-Jan-19

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%REC



Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Reported: 22-Jan-19 12:12

RPD

Fax To:

Reporting

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9012115 - Volatiles										
LCS Dup (9012115-BSD1)				Prepared &	& Analyzed:	21-Jan-19				
Benzene	1.94	0.050	mg/kg	2.00		97.0	72.2-131	0.384	6.91	
Toluene	1.85	0.050	mg/kg	2.00		92.7	71.7-126	0.183	7.12	
Ethylbenzene	1.85	0.050	mg/kg	2.00		92.6	68.9-126	0.340	7.88	
Total Xylenes	5.63	0.150	mg/kg	6.00		93.9	71.4-125	0.489	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0992		mg/kg	0.100		99.2	73.3-129			

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Reported:

22-Jan-19 12:12



Analytical Results For:

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

Project: 2B PIPELINE Project Number: NONE GIVEN Project Manager: DEAN ERICSON

Fax To:

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 9010908 - 0	General Prep -	Organics

Blank (9010908-BLK1)				Prepared & Anal	vzed: 09-Jan-19				
GRO C6-C10	ND	10.0	mg/kg	1					
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Total TPH C6-C28	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	43.4		mg/kg	50.0	86.7	41-142			
Surrogate: 1-Chlorooctadecane	41.2		mg/kg	50.0	82.4	37.6-147			
LCS (9010908-BS1)				Prepared & Anal	yzed: 09-Jan-19				
GRO C6-C10	186	10.0	mg/kg	200	93.1	76.5-133			
DRO >C10-C28	203	10.0	mg/kg	200	102	72.9-138			
Total TPH C6-C28	390	10.0	mg/kg	400	97.4	78-132			
Surrogate: 1-Chlorooctane	46.8		mg/kg	50.0	93.5	41-142			
Surrogate: 1-Chlorooctadecane	44.3		mg/kg	50.0	88.7	37.6-147			
LCS Dup (9010908-BSD1)				Prepared & Anal	yzed: 09-Jan-19				
GRO C6-C10	197	10.0	mg/kg	200	98.4	76.5-133	5.47	20.6	
DRO >C10-C28	212	10.0	mg/kg	200	106	72.9-138	3.92	20.6	
Total TPH C6-C28	408	10.0	mg/kg	400	102	78-132	4.67	18	
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0	94.0	41-142			
Surrogate: 1-Chlorooctadecane	44.9		mg/kg	50.0	89.9	37.6-147			

Batch 9010913 - General Prep - Organics

Blank (9010913-BLK1)				Prepared: 09-Jan	ı-19 Analyzed: 10	0-Jan-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				
Total TPH C6-C28	ND	10.0	mg/kg				
Surrogate: 1-Chlorooctane	44.9		mg/kg	50.0	89.9	41-142	
Surrogate: 1-Chlorooctadecane	43.5		mg/kg	50.0	87.0	37.6-147	

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%PEC

Reported:

22-Jan-19 12:12

DDD



Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Snika

EAN ERICSON

Fax To:

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9010913 - General Prep - Organics										
LCS (9010913-BS1)				Prepared: ()9-Jan-19 A	nalyzed: 10)-Jan-19			
GRO C6-C10	191	10.0	mg/kg	200		95.5	76.5-133			
DRO >C10-C28	217	10.0	mg/kg	200		108	72.9-138			
Total TPH C6-C28	408	10.0	mg/kg	400		102	78-132			
Surrogate: 1-Chlorooctane	47.9		mg/kg	50.0		95.7	41-142			
Surrogate: 1-Chlorooctadecane	45.8		mg/kg	50.0		91.6	37.6-147			
LCS Dup (9010913-BSD1)				Prepared: 0)9-Jan-19 A	nalyzed: 10)-Jan-19			
GRO C6-C10	204	10.0	mg/kg	200		102	76.5-133	6.73	20.6	
DRO >C10-C28	225	10.0	mg/kg	200		113	72.9-138	3.85	20.6	
Total TPH C6-C28	429	10.0	mg/kg	400		107	78-132	5.21	18	
Surrogate: 1-Chlorooctane	48.9		mg/kg	50.0		97.8	41-142			
Surrogate: 1-Chlorooctadecane	47.0		mg/kg	50.0		94.1	37.6-147			
Batch 9011001 - General Prep - Organics										
Blank (9011001-BLK1)				Prepared &	: Analyzed:	10-Jan-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							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.3		mg/kg	50.0		92.6	41-142			
Surrogate: 1-Chlorooctadecane	43.8		mg/kg	50.0		87.6	37.6-147			
LCS (9011001-BS1)				Prepared &	: Analyzed:	10-Jan-19				
GRO C6-C10	240	10.0	mg/kg	200		120	76.5-133			
GRO CO-CTO	240									
	240	10.0	mg/kg	200		113	72.9-138			
DRO >C10-C28			mg/kg mg/kg	200 400		113 117	72.9-138 78-132			
DRO >C10-C28 Total TPH C6-C28 Surrogate: 1-Chlorooctane	226	10.0								

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Reported: 22-Jan-19 12:12

%REC

RPD

Fax To:

Reporting

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Spike

Source

		Reporting		Spike	Source		%KEC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9011001 - General Prep - Organics										
LCS Dup (9011001-BSD1)				Prepared &	k Analyzed:	10-Jan-19				
GRO C6-C10	237	10.0	mg/kg	200		119	76.5-133	1.28	20.6	
DRO >C10-C28	218	10.0	mg/kg	200		109	72.9-138	3.48	20.6	
Total TPH C6-C28	456	10.0	mg/kg	400		114	78-132	2.34	18	
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.3	41-142			
Surrogate: 1-Chlorooctadecane	44.1		mg/kg	50.0		88.3	37.6-147			
Batch 9011005 - General Prep - Organics										
Blank (9011005-BLK1)				Prepared &	k Analyzed:	10-Jan-19				
GRO C6-C10	ND	10.0	mg/kg					<u> </u>		<u> </u>
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.3		mg/kg	50.0		92.6	41-142			
Surrogate: 1-Chlorooctadecane	45.1		mg/kg	50.0		90.1	37.6-147			
LCS (9011005-BS1)				Prepared &	k Analyzed:	10-Jan-19				
GRO C6-C10	220	10.0	mg/kg	200		110	76.5-133			
DRO >C10-C28	208	10.0	mg/kg	200		104	72.9-138			
Total TPH C6-C28	428	10.0	mg/kg	400		107	78-132			
Surrogate: 1-Chlorooctane	46.8		mg/kg	50.0		93.7	41-142			
Surrogate: 1-Chlorooctadecane	44.6		mg/kg	50.0		89.2	37.6-147			
LCS Dup (9011005-BSD1)				Prepared &	k Analyzed:	10-Jan-19				
GRO C6-C10	239	10.0	mg/kg	200		120	76.5-133	8.49	20.6	<u> </u>
DRO >C10-C28	230	10.0	mg/kg	200		115	72.9-138	9.94	20.6	
Total TPH C6-C28	469	10.0	mg/kg	400		117	78-132	9.20	18	
Surrogate: 1-Chlorooctane	48.9		mg/kg	50.0		97.8	41-142			
Surrogate: 1-Chlorooctadecane	46.8		mg/kg	50.0		93.6	37.6-147			

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Analytical Results For:

ENERGY TRANSFER P. O. BOX 1226 JAL NM, 88252 Project: 2B PIPELINE
Project Number: NONE GIVEN
Project Manager: DEAN ERICSON

Reported: 22-Jan-19 12:12

Fax To:

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (9012114-BLK1)				Prepared & Anal	yzed: 21-Jan-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						
Total TPH C6-C28	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	49.7		mg/kg	50.0	99.3	41-142			
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0	104	37.6-147			
LCS (9012114-BS1)				Prepared & Anal	yzed: 21-Jan-19				
GRO C6-C10	191	10.0	mg/kg	200	95.7	76.5-133			
DRO >C10-C28	208	10.0	mg/kg	200	104	72.9-138			
Total TPH C6-C28	399	10.0	mg/kg	400	99.8	78-132			
Surrogate: 1-Chlorooctane	50.3		mg/kg	50.0	101	41-142			
Surrogate: 1-Chlorooctadecane	50.9		mg/kg	50.0	102	37.6-147			
LCS Dup (9012114-BSD1)				Prepared & Anal	yzed: 21-Jan-19				
GRO C6-C10	189	10.0	mg/kg	200	94.6	76.5-133	1.13	20.6	
DRO >C10-C28	208	10.0	mg/kg	200	104	72.9-138	0.114	20.6	
Total TPH C6-C28	397	10.0	mg/kg	400	99.3	78-132	0.482	18	
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0	98.7	41-142			
Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0	99.2	37.6-147			

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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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

9+

Company Name:	ETC Texas Pipeline, Ltd.										6	118	BILL TO					A	ANALYSIS REQUEST	
roject Manager:	Joel Lowry							70	P.O. #:	#										
Address: 600 N	600 N. Marienfeld. St., Suite 700, Midland, TX 79701	797	3					0	Company:	pa	٠ <u>۲</u>	m	ETC Texas Pipeline, Ltd.	ine, Ltd.						
City:	State:	Zip:						_	Attn:)ear	<u> </u>	Dean Ericson					5		
Phone #: 432-4	432-466-4450 Fax #:							_	Address:	res	99							1		
Project #:	Project Owner:								City:									nd		_
Project Name:	2B Pipeline							10	State:	Ü.			Zip:					Pe,		
Project Location:	Lea County, New Mexico							771	Phone #:	ne #	.**									
Sampler Name:								-	Fax #:	*								is		_
FOR LAB USE ONLY		P.		4 1	3	MATRIX	_ X	-4 1	77	_ Ř	PRESERV.	<u>?</u>	SAMPLING	u,				ly :		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	ТРН	BTEX 8021	Hold Ann		
- S	SH-1 0-3"	ດ	_			×					×		1/9/19		×	×	×			
	SH1 2'	ດ	_			×					×		1/9/19	200	×	×	×		п —	
SE	EH1 0-3"	ଜ	_			×					×		1/9/19		×	×	×			
L E	EH1 2'	ଜ				×				_	×		1/9/19	1900	×	×	×			_
C	NH1 6"	ര				×			_		×		1/9/19		×	×	×			_
<u>5</u>	NH1 2'	ଜ	_			×					×		1/9/19		×	×	×			_
7 1	V2 0-3"	ດ	_			×					×		1/9/19		×	×	×	X		
%	V2 3-6"	ര			-	×			_	_	×	_	1/9/19		×	×	×			
									_											
LEASE NOTE: Liability and D	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	laim a	ising w	hether	basec	in co	tract	or tor	shal	be lin	nited t	o the	amount paid by the c	lient for the						L
The same of the same of the same of		120000000							00 00 00 00 00 00 00 00 00 00 00 00 00											

affiliates or successors arising out of or related to the performance of s Relinquished By: Refinquished By: Date: real, regardless of whether such daim is based upon any of the above stated reasons or otherwise.

Received By:

Phone Result:

Fax Result:

REMIARKS: Received By:

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,

nalyses. 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

told Samous Miland 1/2/19. □ Yes No No Add'l Phone #: Add'l Fax #:

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

FORM-006 R 2.0

Sampler - UPS - Bus - Other: 1.10

1 # 97

Sample Condition
Cool Intact
Yes Yes
No No

Delivered By: (Circle One)

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 0+ 1

Company Name:									BILL	L 70		11		l _≥	ANALYSIS	$\frac{1}{2}$	S		REQUEST	121	S
Project Manager:	r: Joel Lowry					P.O.	#	100.00													
Address: 600	600 N. Marienfeld. St., Suite 700, Midland, TX 79701	× 7:	970			Con	npa	Company:	m	ETC Texas Pipeline, Ltd.	, Ltd.										
City:	State:	Z	Zip:			Attn:		Dea	<u>E</u> .	Dean Ericson				19							
Phone #: 432	432-466-4450 Fax #:					Address:	res	š						eli							
Project #:	Project Owner:	ä				City:	.:							pn.							
Project Name:	2B Pipeline					State:				Zip:				P							
Project Location:	n: Lea County, New Mexico					Phone #:	ne	#						3							
Sampler Name:						Fax #:	#							51							
FOR LAB USE ONLY		-	-		MATRIX	_	낊	PRESERV.	?	SAMPLING				14							
Lab I.D. 14900051	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL OIL SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE TI	Chloride	TPH	BTEX 8021	Itold ana							
Q	NH2 0-3"	G	-						_	1/9/19	×	×	×		- 1	\dashv	- 1	寸		寸	J
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=	SH2 0-3"	G	٦,	_	×			×		1/9/19	×	×	×							_	
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management in the support of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whole service. In no event shall Cardinal be liable for incidental or consequential damages, including whole service is not event shall Cardinal be liable for incidental or consequential damages, including whole service is the result of the service in the service service is not use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or rabinal to the neutromenous of services have not to the service services are serviced by the services are

armates of successors attend out of or related to the belief lightness of	animates of successors arising out of related to the performance of services neteriner by Cardinal, regardless of whether such daily is passed upon any of the above stated reasons of otherwise.	s or otherwise.
Relinquished By:	Date: Received By:	Phone Result: ☐ Yes ☐ No Add'I Phone #:
		Fax Result: ☐ Yes ☐ No Add'l Fax #:
	しるととして	REMARKS:
Jun Juny	III DANNE DANNE C. II	ioel@lowryenvironmental.com
Relinquished By:	Date: Received By:	alimit !
•		dean.ericson@energytransfer.com
	Time:	The Kerry
		oles!
Delivered By: (Circle One)	Sample Condition CHECKED BY:	and saw
Sampler LIBS Bills Other 112 #9	Co	More
	No No	

FORM-006 R 2.0

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Troject Manager:	ompany Name: ETC Texas Pipeline, Ltd.												6	7/8	BILL TO				ANALYSIS	SIS REQUEST	
Company: ETC Taxas Pipeline, Ltd. State: Zip: Attn: Dean Ericson										2	.#	**									
State: Zip: Attn: Dean Ericson Attn: Dean Ericson		× 797	701							ပ္ပ	ਰ	an	×.	_	ETC Texas Pipeline, Ltd.						
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City: State: Zip: Zip: Zip: Zip: Zip: Zip: Zip: Zip: Zip	432-466-4450									a a	de	SS	855						-d.		
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8 V6 12"		ດ			_			-				_	^		1019		×				

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

Relinquished By:

E

Sampler - UPS - Bus - Other: 1110

497

Sample Condition
Cool Intact
Yes Hes
No No

CHECKED BY:

dean.ericson@energytransfer.com Relland 1/20-

Delivered By: (Circle One)

Time: Date:

Received By:

Phone Result: Fax Result: REMARKS:

□ Yes

□ No Add'I Phone #:

Relinquished By:



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 ETC Texas Pipeline, Ltd.

Company Name:	ETC Texas Pipeline, Ltd.								S. Com				81		BILL TO				A	ANALYSIS REQUEST	REC	UES	-		
Project Manager:	Joel Lowry								7	P.O.	#	100									\dashv	\dashv			
Address: 600 N	600 N. Marienfeld. St., Suite 700, Midland, TX 79701	79	701							Š.	g	Company:		Щ	ETC Texas Pipeline, Ltd.										
City:	State:	Zip:	×						_	Attn:		Des	Dean Ericson	in c	on				5						
Phone #: 432-4	432-466-4450 Fax #:								7	Address:	Teg	Š.							1,0						
Project #:	Project Owner:								0	City:	••								ore						
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Project Location:	Lea County, New Mexico								71	Phone #:	ne	#							5						_
Sampler Name:									-	Fax #:	#:								51						
FOR LAB USE ONLY		P		Т	1	3	MATRIX	−⋝	-		곮	SE	PRESERV	Ť	SAMPLING				14						
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29 V	WH-6 0-3"	ດ				×	5283					×			18/19	×	×	×		6					
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PLEASE NOTE: Liability and I	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	claim	arising	whet	her ba	ased ii	cont	ract	or ton	sha	be	imitec	6 4	le an	unt paid by the client for the										
analyses. All claims including ti	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	emed v	/aived	unles	s mac	e in w	riting	and r	eceiv	ed by	Care	dinal v	vithin	30 d	is after completion of the app	licable									

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,

Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Relinquished By	Relinquished By:	alliliates of successors arising out of or related to the performance
Sample Condition CHECKED BY: Cool mtact (Initials) No No No	Time:	Time: 55 MM MWW L	Date: Q G Received By:	animates of successors arising but of or related to the performance of services relationally but and or services relationally but an
Hold Samples Rem. 19.	dean.ericson@energytransfer.com	REMARKS: ioel@lowryenvironmental.com	Phone Result:	of offerwise.

FORM-006 R 2.0

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

ATTACHMENT #7 Photographic Log



Figure 1 View of the affected area and sample location, facing East.



Figure 2 View of the affected area and sample location.



Figure 3 View of the affected area.



Figure 4 View of surface staining from the initial release and sample location.



Figure 5 View of surface staining from the initial release, facing Northwest.



Figure 6 View of the affected area and sample location.



Figure 7 View of the affected area, facing North.



Figure 8 View of surface staining from the initial release.

ATTACHMENT #8

Release Notification (FORM C-141)

District 1
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
Facility ID	0
Application ID	0

Release Notification Responsible Party

	arty	ETC Texas Pi	peline, Ltd.	OGRID	Arriva V	371183		
Contact Name		Carolyn Black	aller	Contact Telep	phone	817-302-976	6	
Contact Email		carolyn.blacka	ller@energytrar	nsfer.c Incident # (as	signed by OCD)	8 4 = =	- 5.2	0
Contact Maili	ng Addres	s 600 N. Marier	ifeld. St., Suite	700, Midland, TX 79	701	I WAS ASSESSED.	5/	10 HILL
			Locati	on of Release S	ource			
Latitude		32.171247		Longitude	-1	03.193494		
1,14		AC 3 1	(Nad 83 in de	ecimal degrees to 5 deci	mal places)			
Site Name	2B	WATER TO THE WORLD		Site Type		Pipeline		
Date Release	Discovered	12/24/18		API# (if applie	cable) NA		WALLS	3, 140
Unit Letter	Section	Township	Range	Count	y			
I	31	T24S	R37E	Lea				
				Markabeth or "And	all interior			
Surface Owne		e 🗋 Federal 🗍 T	Nature a	and Volume of 1				_)
	Ma	sterial(s) Released (Select	Nature a		Release	mes provided below))
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Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	0	4.
District RP	0	
Facility ID	0	
Application ID	0	

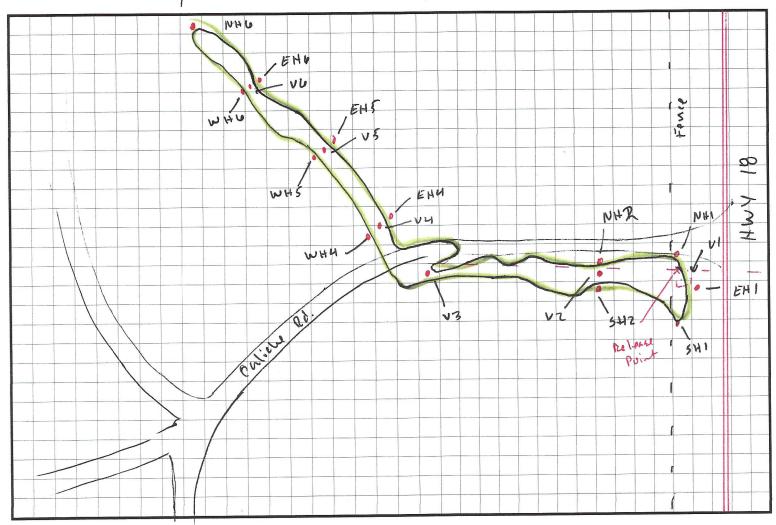
Was this a major	If YES, for what reason(s) does the rest	onsible party consider	this a major release?
release as defined by			f liquids exceeding 25 bbls.
19.15.29.7(A) NMAC?	married to a substitute of the		
Yes No			
	1.2		
	-3		2
	notice given to the OCD? By whom? To Whitaker & Christina Hernandez, 12/2		
	Initi	ial Response	
The respons	sible party must undertake the following actions im	mediately unless they could c	create a safety hazard that would result in injury
✓ The source of the n	elease has been stopped.		
<u> </u>	has been secured to protect human health	and the environment.	
30 THE RESERVE TO BE SEEN TO SEE SEEN THE SEEN THE SEE SEEN THE SEED THE SEE SEEN THE SEED THE SEE SEEN THE SEEN THE SEE SEEN THE SEEN THE SEE SEEN THE SEEN THE SEE SEEN THE SEEN THE SEE	nave been contained via the use of berms		
All free liquids and	recoverable materials have been remove	ed and managed approp	oriately.
begun, please attach a na lined containment area (arrative of actions to date. If remedial eff (see 19.15.29.11 (A)(5)(a) NMAC), pleas	forts have been success se attach all information	fully completed or if the release occurred within a needed for closure evaluation.
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INPUT	Facility Name	=	2B	MISSISSIPPEDICTURE	TEVEL
Pilovita is all saids	Date	(e=1	12/24/2018		
E= 10	Hole Size *	=	1	Inches	
	Pipe Pressure	= =	30	psig	
	Duration	=	0.7	Hrs	
	Heat Content	=	N/A	Btu/Ft3	
<u>EQUATIONS</u>	Leak Rate	æ.	(1.178) * (Hole S	ize^2) * (Pipe Psig)	
CALCULATIONS	Leak Rate	=	35.340	Mcf/Hr	
	Gas Loss	=	24.738	Mcf	
	Heat Loss	=	N/A	MMBtu	

ATTACHMENT #9 Field Data

Site Name: 28 (Huy 18)

Date: 1/8/2019



Pelinete Site Found dead Filer Optic line
Black Staining Limited to to 2" in Florpath

Field ID	Odor/PID	Chloride
V106"	Strong	4170
VI QU'-R	Slisher	4170
5H10-3"	3+1005	4170
5H12'	None	_
EH100-3"	Strong	_

Field ID	Odor/PID	Chloride
EHIRZ	slight	~
NHIQU.	51.5 Wt	
NHIP2'	Nove	_
V2003"	Strong	_
V203-4"	Nove	_

Field ID	Odor/PID	Chloride
NH 200-3	Nove	_
NH206"	gr CVI	
5HZP0-3"	NOW	
34206"	Nove	_
V3@0-3"	Strong	_

Field ID	Odor/PID	Chloride
V3018"-R	Wedium	_
V4 PO-3"	5+10-5	_
V4012"-R	Nop	_
WH400-3	Slight	-
EH400-3"	Nove	_

Field ID	Odor/PID	Chloride
EH4612"	More	
V5 PD-3"	5+10-4	
V 5 P18. R	Medium	_
WH500.3"	None	_
WH5@12"	Nove	_

Field ID	Odor/PID	Chloride
E45003"	Nove	_
Elt 5012"	Nove	-
V600-3	Strong	
V6 @12"	mild	_
WH 600-3"	None	-

WH 6 12" NOW EH 6 12" NOW NH 6 0-3" NOW NH 6 12" NOW