State of New Mexico
Oil Conservation Division

Incident ID	nAPP2121030753
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	160 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☑ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2121030753
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Carolyn Blackaller
Title: Sr. Environmental Specialist

Signature: Carolyn Blackaller
Date: 10/20/2021

email: Carolyn.Blackaller@energytransfer.com
Telephone: (432)203-8290

OCD Only

Received by: _____
Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2121030753
District RP	
Facility ID	
Application ID	

Closure

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

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

☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☑ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☑ Description of remediation activities

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

Printed Name: Carolyn Blackaller Title: Sr. Environmental Specialist

Signature: Carolyn Blackaller Date: 10/20/2021

email: Carolyn.Blackaller@energytransfer.com Telephone: (432)203-8290

OCD Only

Received by: Chad Hensley Date: 11/18/2021

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

Closure Approved by: Chad Hensley Date: 11/18/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

Remediation Summary & Soil Closure Request

ETC Texas Pipeline, Ltd.
Rajin Cajin Pipeline
Lea County, New Mexico
Unit Letter H, Section 11, Township 26 South, Range 34 East
Latitude 32.05845 North, Longitude 103.43224 West
NMOCD Reference No. nAPP2121030753

Prepared By:

Etech Environmental & Safety Solutions, Inc.
2507 79th St., Unit A
Lubbock, Texas 79423-2211

Ben J. Arguijo

Joel W. Lowry

ETECH Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of ETC Texas Pipeline, Ltd., has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Rajin Cajin Pipeline (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.05845 Longitude: -103.43224

Provided GPS are in WGS84 format.

Site Name:	Rajin Cajin Pipeline	Site Type:	Pipeline
Date Release Discovered:	7/15/2021	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
H	11	26S	34E	Lea

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

Nature and Volume of Release

[ ] Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	[ ] Yes [ ] No [ ] N/A
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[X] Other (describe) Pipeline Liquids	Volume/Weight Released (bbls) 19.6	Volume/Weight Recovered (bbls) 0

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

Initial Response

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

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

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	160'
Did the release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production or storage site?	☐ Yes ☒ No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
160'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

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

4.0 INITIAL SITE ASSESSMENT

On August 4, 2021, Etech conducted an initial site assessment. During the initial site assessment, six (6) hand-augered soil bores (NH 1, EH 1, EH 2, SH 1, WH 1, and WH 2) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. In addition, two (2) hand-augered soil bores (SP 1 and SP 2) were advanced within the inferred margins of the affected area in an effort to determine the vertical extent of impacted soil. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit (henceforth, "chloride test kit").

Based on field observations and field test data, a total of 16 delineation soil samples (NH 1 @ Surface, NH 1 @ 1', EH 1 @ Surface, EH 1 @ 1', EH 2 @ Surface, EH 2 @ 1', SH 1 @ Surface, SH 1 @ 1', WH 1 @ Surface, WH 1 @ 1', WH 2 @ Surface, WH 2 @ 1', SP 1 @ Surface, SP 1 @ 1', SP 2 @ Surface, and SP 2 @ 1') were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical and horizontal extent of impacted soil was adequately defined, and soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards beyond one (1) foot below ground surface (bgs).

Sample point locations are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the Site are provided in Appendix D.

5.0 REMEDIATION ACTIVITIES SUMMARY

On October 1, 2021, remediation activities commenced at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The floor and sidewalls of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

On October 4, 2021, Etech collected 12 confirmation soil samples (NW 1, EW 1, EW 2, SW 1, WW 1, WW 2, FL 1 @ 6', FL 2 @ 6', FL 3 @ 6', FL 4 @ 6', FL 5 @ 6', and FL 6 @ 6') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

The final dimensions of the excavated area were approximately 80 feet in length, six (6) feet in width, and six (6) feet in depth. During the course of remediation activities, approximately 312 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal. An approximately equal amount of locally sourced, non-impacted material was imported to the Site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Laboratory analytical reports are provided in Appendix C. General photographs of the Site are provided in Appendix D.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

7.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulations. Impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria and NMOCD Reclamation Standard.

Based on laboratory analytical results and field activities conducted to date, Etech recommends ETC Texas Pipeline, Ltd., provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Site.

8.0 LIMITATIONS

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

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

9.0 DISTRIBUTION

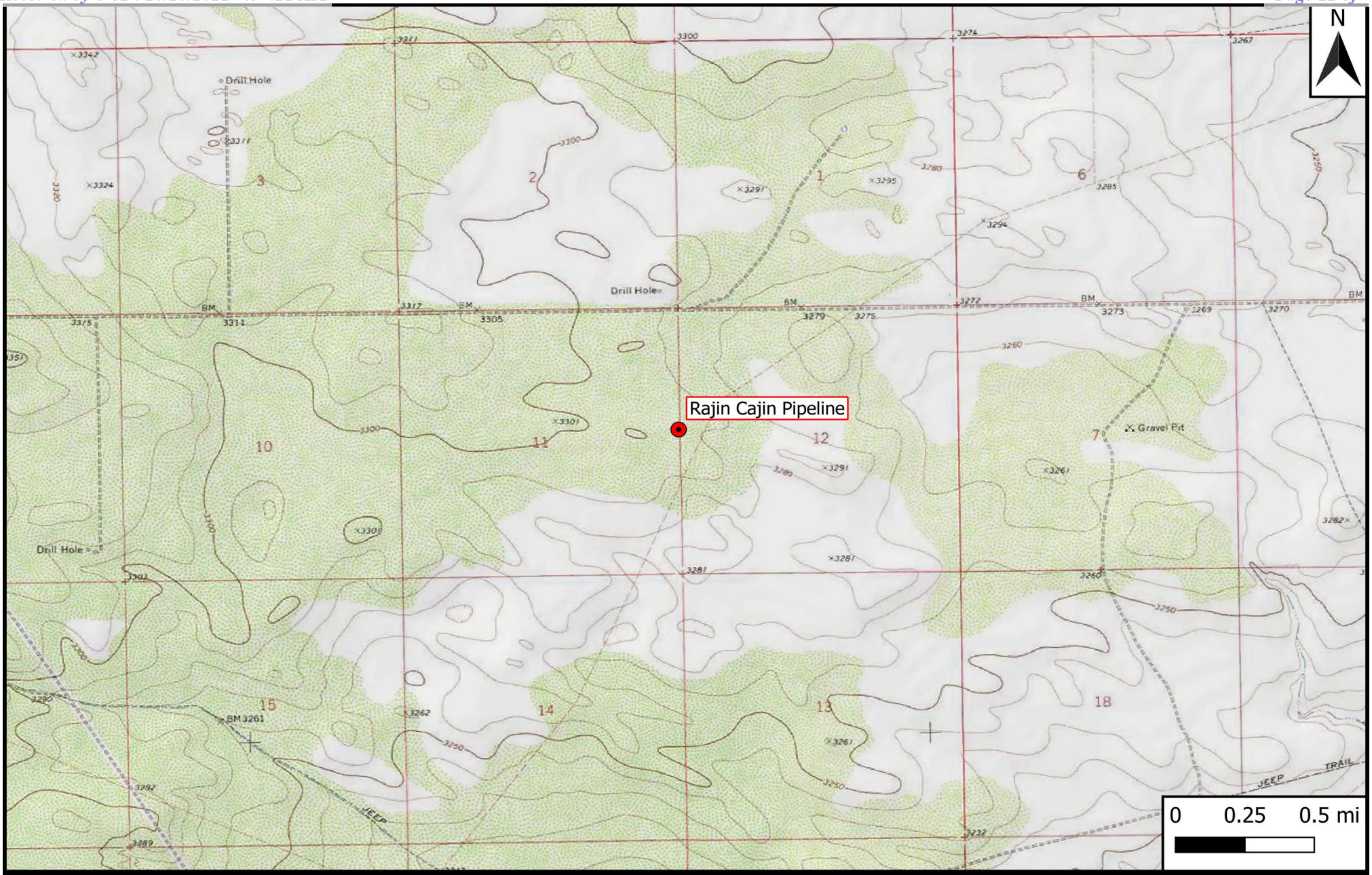
ETC Texas Pipeline, Ltd.
600 N. Marienfeld. St.
Suite 700
Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1220 South St. Francis Drive
Santa Fe, NM 87505

United States Department of the Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220

(Electronic Submission)

Figure 1
Topographic Map



Legend

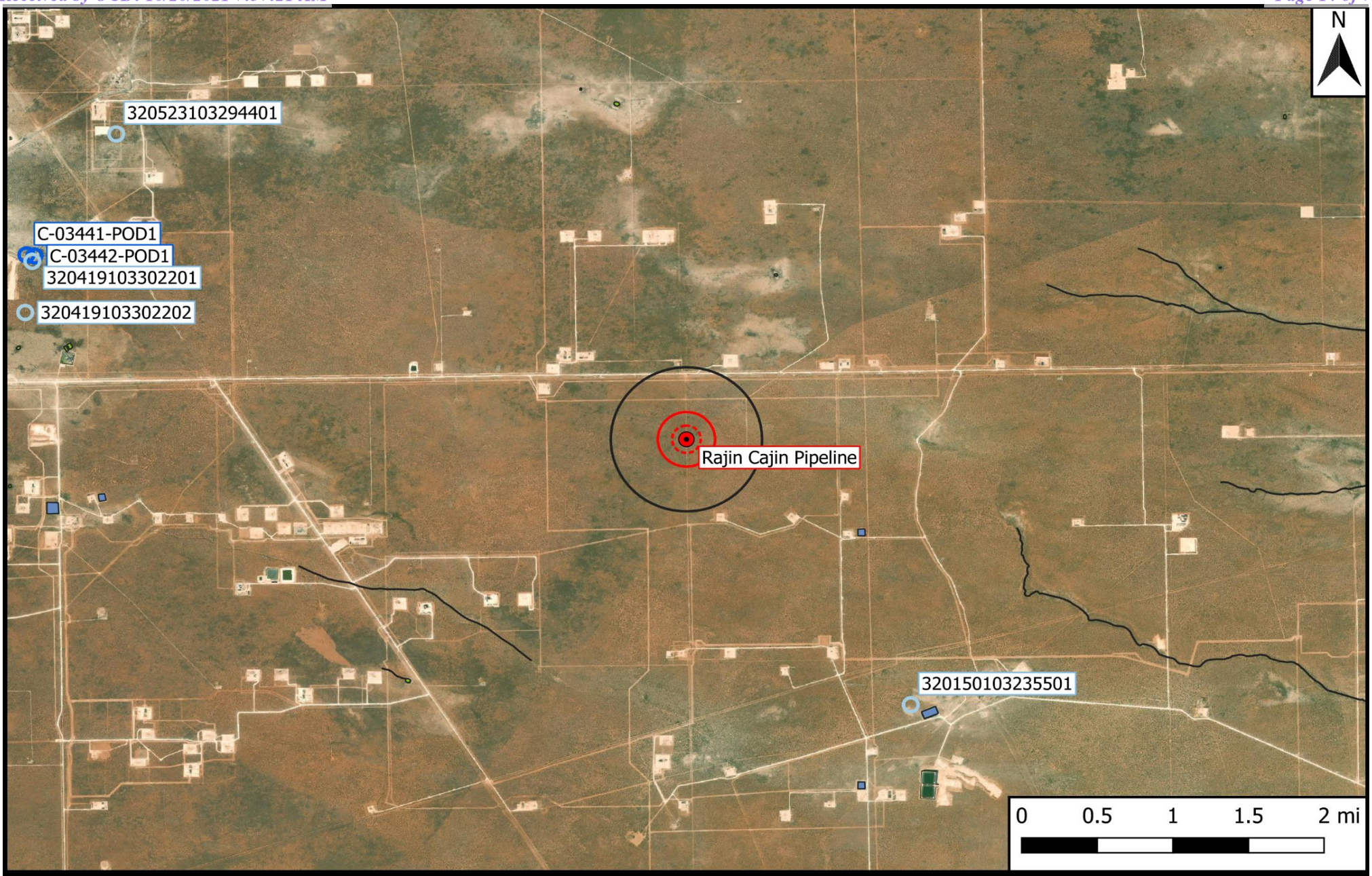
Site Location

Figure 1
Topographic Map
ETC Texas Pipeline, Ltd.
Rajin Cajin Pipeline
GPS: 32.05845, -103.43224
Lea County

ETECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 10/15/21

Figure 2
Aerial Proximity Map



Legend

- Site Location
- Well - NMOSE
- Well - USGS
- Well - Investigative/Monitor
- Potash Mine Workings
- 1% Annual Flood Chance
- Emergent/Forested Wetlands
- Freshwater Pond/Lake
- Medium/High Karst
- Riverine
- 500-Ft Radius
- 1,000-Ft Radius
- 0.5-Mi Radius

Figure 2
Aerial Proximity Map
ETC Texas Pipeline, Ltd.
Rajin Cajin Pipeline
GPS: 32.05845, -103.43224
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 10/15/21

Figure 3
Site & Sample Location Map

Legend
- Excavation Extent
- Pipeline
- Auger Hole
- Composite Floor Sample
- Composite Wall Sample

Figure 3
Site & Sample Location Map
ETC Texas Pipeline, Ltd.
Rajin Cajin Pipeline
GPS: 32.05845, -103.43224
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja
Checked: jwl Date: 10/15/21

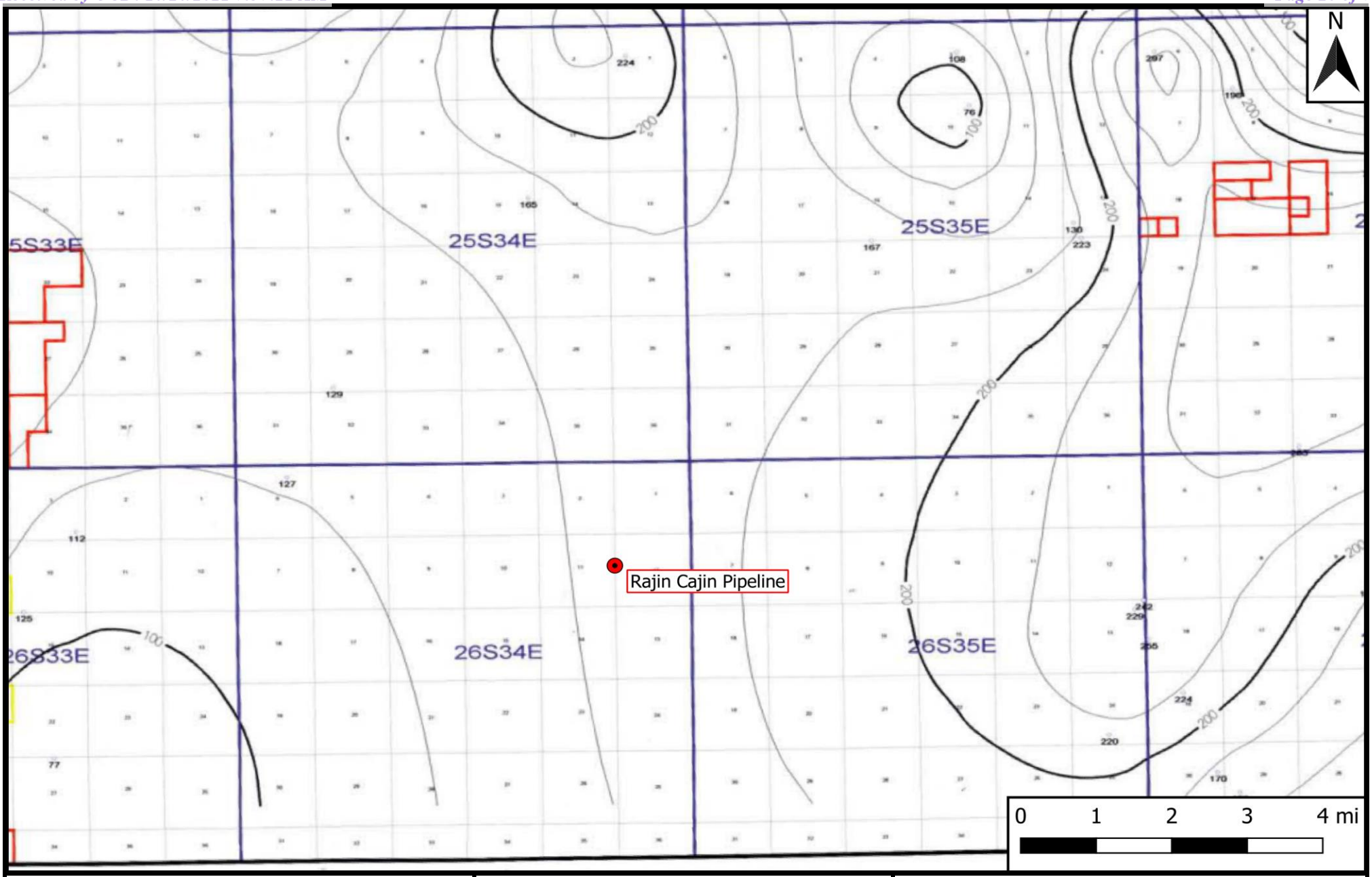
Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
ETC Texas Pipeline, Ltd.
Rajin Cajin Pipeline
NMOCD Ref. #: nAPP2121030753

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**1,000**	**-**	**2,500**	**20,000**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
				SW 846 8021B		**SW 846 8015M Ext.**					**4500 Cl**
Sample ID	**Date**	**Depth (Feet)**	**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)**
Delineation Samples											
NH 1 @ Surf.	8/4/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 1 @ 1'	8/4/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 1 @ Surf.	8/4/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 1 @ 1'	8/4/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH 2 @ Surf.	8/4/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EH 2 @ 1'	8/4/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 1 @ Surf.	8/4/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 1 @ 1'	8/4/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 1 @ Surf.	8/4/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 1 @ 1'	8/4/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 2 @ Surf.	8/4/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 2 @ 1'	8/4/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 1 @ Surf.	8/4/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 1 @ 1'	8/4/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 2 @ Surf.	8/4/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 2 @ 1'	8/4/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
Excavation Samples											
NW 1	10/4/2021	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 1	10/4/2021	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 2	10/4/2021	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 1	10/4/2021	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 1	10/4/2021	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 2	10/4/2021	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 1 @ 6'	10/4/2021	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 2 @ 6'	10/4/2021	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 3 @ 6'	10/4/2021	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 4 @ 6'	10/4/2021	6	In-Situ	<0.050	12.3	585	223	808	<10.0	808	64.0
FL 5 @ 6'	10/4/2021	6	In-Situ	<0.050	4.59	139	82.8	222	<10.0	222	16.0
FL 6 @ 6'	10/4/2021	6	In-Situ	<0.050	17.5	702	243	945	<10.0	945	48.0

Dash (-): Sample not analyzed for that constituent.
Bold: NMOCD Closure Criteria exceedance.
Red: NMOCD Reclamation Standard exceedance.

Appendix A
Depth to Groundwater Information



Legend

Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
ETC Texas Pipeline, Ltd.
Rajin Cajin Pipeline
GPS: 32.05845, -103.43224
Lea County

ETECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 10/15/21

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02299		CUB	LE	4	2	4	24	25S	34E	649517	3554125	6321	350	300	50

Average Depth to Water: **300 feet**

Minimum Depth: **300 feet**

Maximum Depth: **300 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 647997.42 **Northing (Y):** 3547989.36 **Radius:** 6440

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.

7/30/21 9:45 AM

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	X	Y
	C 02299	4	2	4	24	25S	34E	649517	3554125

Driller License: 122 **Driller Company:** UNKNOWN

Driller Name: UNKNOWN

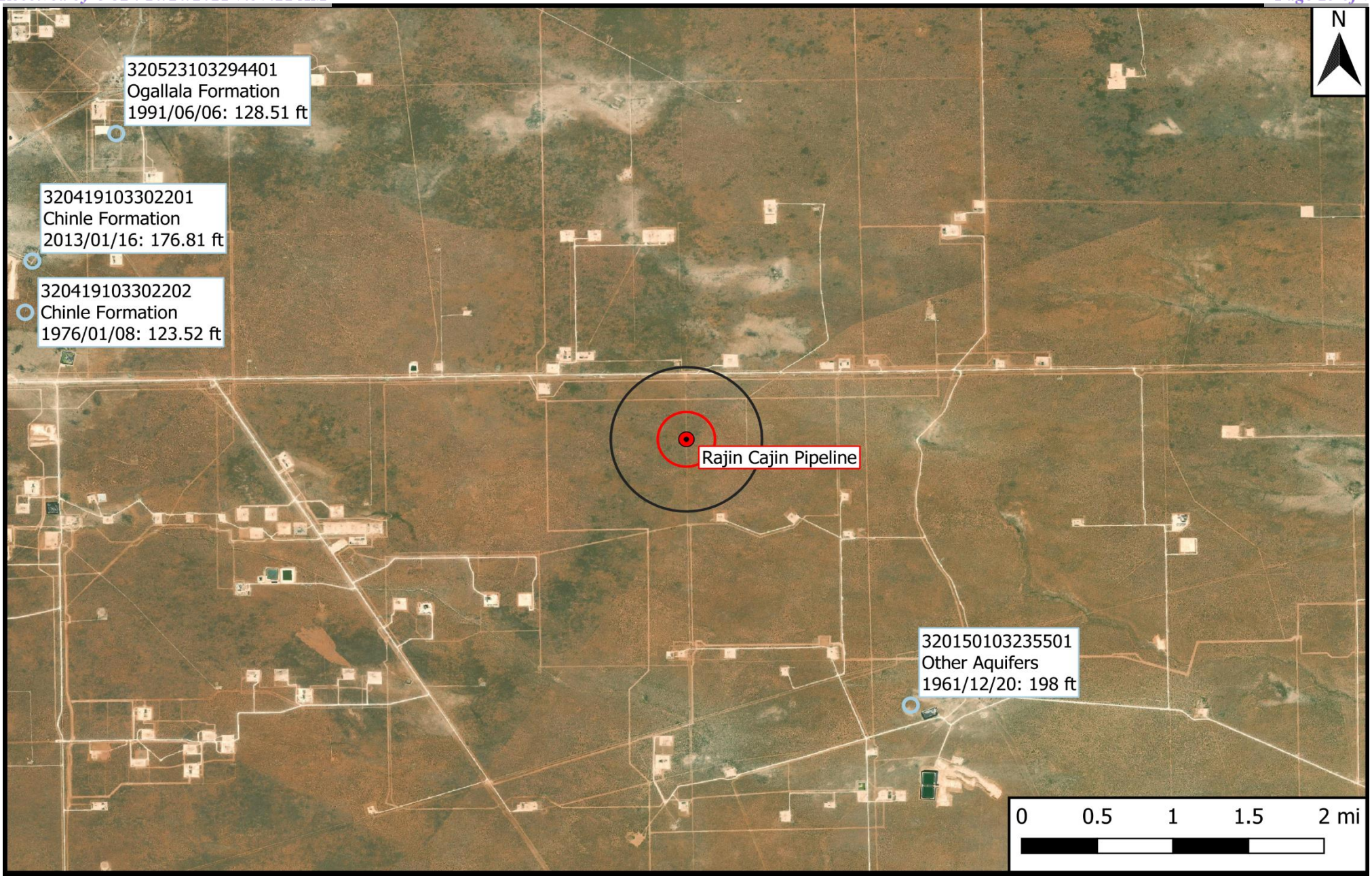
Drill Start Date: **Drill Finish Date:** 12/31/1949 **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 3 GPM

Casing Size: 8.00 **Depth Well:** 350 feet **Depth Water:** 300 feet

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.



Legend
- Site Location
- Well - USGS
- 1,000-Ft Radius
- 0.5-Mi Radius

Figure 5
USGS Well Proximity Map
ETC Texas Pipeline, Ltd.
Rajin Cajin Pipeline
GPS: 32.05845, -103.43224
Lea County

ETECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 10/15/21

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater
Geographic Area: United States
GO

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320150103235501

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

USGS 320150103235501 26S.35E.19.142

Lea County, New Mexico
Latitude 32°01'53", Longitude 103°24'25" NAD27
Land-surface elevation 3,190 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1961-12-20		D	72019	198.00			1	O	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	O	Observed.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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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: 2021-10-15 17:22:42 EDT
0.39 0.26 nadww01

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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320419103302201

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

USGS 320419103302201 26S.34E.06.21414

Lea County, New Mexico
Latitude 32°04'37.9", Longitude 103°30'20.5" NAD83
Land-surface elevation 3,319.00 feet above NGVD29
The depth of the well is 360 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1954-07-23		D	72019	141.95			1	Z			A
1971-10-20		D	72019	128.43			1	Z			A
1981-03-25		D	72019	129.43			1	Z			A
1986-03-04		D	72019	125.88			1	Z			A
1991-06-12		D	72019	126.82			1	Z			A
2013-01-16	21:00 UTC	m	72019	176.81			1	S	USGS	S	A

Explanation

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

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0.35 0.24 nadww01

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320419103302202

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

USGS 320419103302202 26S.34E.06.21414A

Lea County, New Mexico
Latitude 32°04'19", Longitude 103°30'22" NAD27
Land-surface elevation 3,329 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1976-01-08		D	72019	123.52			1	Z			A

Explanation

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

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Page Contact Information: USGS Water Data Support Team
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0.28 0.24 nadww01

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320523103294401

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

USGS 320523103294401 25S.34E.29.343322

Lea County, New Mexico
Latitude 32°05'23", Longitude 103°29'44" NAD27
Land-surface elevation 3,321 feet above NAVD88
The depth of the well is 165 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1970-12-08		D	72019	127.15			1	Z			A
1976-01-08		D	72019	127.49			1	Z			A
1981-03-25		D	72019	132.10			1	Z			A
1986-03-12		D	72019	130.23			1	Z			A
1991-06-06		D	72019	128.51			1	Z			A

Explanation

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

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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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0.37 0.23 nadww01

Appendix B
Field Data

1-3'-800

4'-10,000

Sample Log

Date: 8-4-21

Project: Rajin Cajin Pipeline

Project Number: 14563 Latitude: 32.05845 Longitude: -103.43224

Sample ID	PID/Odor	Chloride Conc.	GPS
NH1e Surf.	—	132	
NH1e 1'	—	212	
EH1e Surf.	—	132	
EH1e 1'	—	<132	
WH1e Surf.	—	156	
WH1e 1'	—	132	
EH2e Surf.	—	<132	
EH2e 1'	—	132	
WH2e Surf.	—	132	
WH2e 1'	—	<132	
SP1e Surf.	—	132	
SP1e 1	—	132	
SP2e Surf.	—	<132	
SP2e 1'	—	156	
SH1e Surf.	—	<132	
SH1e 1'	—	<132	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Received by OCD: 10/20/2021 7:37:21 AM

Released to Imaging: 11/18/2021 1:27:38 PM

Appendix C
Laboratory Analytical Reports

CARDINAL Laboratories

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

August 09, 2021

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RAJIN CAJIN PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 08/04/21 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: NH 1 @ SURFACE (H212070-01)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2021	ND	2.13	106	2.00	2.70	
Toluene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	3.53	
Total Xylenes*	<0.150	0.150	08/06/2021	ND	6.52	109	6.00	3.82	
Total BTEX	<0.300	0.300	08/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	178	89.2	200	6.26	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	178	89.0	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *92.1 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *83.2 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: NH 1 @ 1' (H212070-02)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2021	ND	2.13	106	2.00	2.70	
Toluene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	3.53	
Total Xylenes*	<0.150	0.150	08/06/2021	ND	6.52	109	6.00	3.82	
Total BTEX	<0.300	0.300	08/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	178	89.2	200	6.26	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	178	89.0	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *90.1 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *81.4 %* *38.9-142*

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Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: EH 1 @ SURFACE (H212070-03)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2021	ND	2.13	106	2.00	2.70	
Toluene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	3.53	
Total Xylenes*	<0.150	0.150	08/06/2021	ND	6.52	109	6.00	3.82	
Total BTEX	<0.300	0.300	08/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	178	89.2	200	6.26	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	178	89.0	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *86.6 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *78.8 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: EH 1 @ 1' (H212070-04)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2021	ND	2.13	106	2.00	2.70	
Toluene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	3.53	
Total Xylenes*	<0.150	0.150	08/06/2021	ND	6.52	109	6.00	3.82	
Total BTEX	<0.300	0.300	08/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *81.9 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *76.5 %* *38.9-142*

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Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: EH 2 @ SURFACE (H212070-05)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2021	ND	2.13	106	2.00	2.70	
Toluene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	3.53	
Total Xylenes*	<0.150	0.150	08/06/2021	ND	6.52	109	6.00	3.82	
Total BTEX	<0.300	0.300	08/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *83.0 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *76.9 %* *38.9-142*

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Analytical Results For:

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LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: EH 2 @ 1' (H212070-06)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2021	ND	2.13	106	2.00	2.70	
Toluene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	3.53	
Total Xylenes*	<0.150	0.150	08/06/2021	ND	6.52	109	6.00	3.82	
Total BTEX	<0.300	0.300	08/06/2021	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *81.6 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *75.2 %* *38.9-142*

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Analytical Results For:

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2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: SH 1 @ SURFACE (H212070-07)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2021	ND	2.13	106	2.00	2.70	
Toluene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	3.53	
Total Xylenes*	<0.150	0.150	08/06/2021	ND	6.52	109	6.00	3.82	
Total BTEX	<0.300	0.300	08/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *84.4 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *77.3 %* *38.9-142*

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Analytical Results For:

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2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: SH 1 @ 1' (H212070-08)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2021	ND	2.13	106	2.00	2.70	
Toluene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/06/2021	ND	2.18	109	2.00	3.53	
Total Xylenes*	<0.150	0.150	08/06/2021	ND	6.52	109	6.00	3.82	
Total BTEX	<0.300	0.300	08/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *82.9 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *76.4 %* *38.9-142*

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2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: WH 1 @ SURFACE (H212070-09)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2021	ND	1.91	95.5	2.00	7.73	
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34	
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06	
Total BTEX	<0.300	0.300	08/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *83.8 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *77.8 %* *38.9-142*

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Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: WH 1 @ 1' (H212070-10)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2021	ND	1.91	95.5	2.00	7.73	
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34	
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06	
Total BTEX	<0.300	0.300	08/07/2021	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *87.4 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *80.6 %* *38.9-142*

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Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: WH 2 @ SURFACE (H212070-11)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2021	ND	1.91	95.5	2.00	7.73	
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34	
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06	
Total BTEX	<0.300	0.300	08/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *80.8 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *74.6 %* *38.9-142*

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Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: WH 2 @ 1' (H212070-12)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2021	ND	1.91	95.5	2.00	7.73	
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34	
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06	
Total BTEX	<0.300	0.300	08/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.3 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *83.0 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *76.4 %* *38.9-142*

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Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: SP 1 @ SURFACE (H212070-13)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2021	ND	1.91	95.5	2.00	7.73	
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34	
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06	
Total BTEX	<0.300	0.300	08/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.3 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *81.4 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *75.5 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: SP 1 @ 1' (H212070-14)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2021	ND	1.91	95.5	2.00	7.73	
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34	
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06	
Total BTEX	<0.300	0.300	08/07/2021	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *84.2 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *77.7 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: SP 2 @ SURFACE (H212070-15)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2021	ND	1.91	95.5	2.00	7.73	
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34	
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06	
Total BTEX	<0.300	0.300	08/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.6 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *78.3 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *72.2 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	08/04/2021	Sampling Date:	08/04/2021
Reported:	08/09/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC -		

Sample ID: SP 2 @ 1' (H212070-16)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2021	ND	1.91	95.5	2.00	7.73	
Toluene*	<0.050	0.050	08/07/2021	ND	2.07	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	08/07/2021	ND	2.00	99.8	2.00	7.34	
Total Xylenes*	<0.150	0.150	08/07/2021	ND	5.98	99.7	6.00	6.06	
Total BTEX	<0.300	0.300	08/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.5 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/06/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2021	ND	210	105	200	0.841	
DRO >C10-C28*	<10.0	10.0	08/07/2021	ND	222	111	200	0.271	
EXT DRO >C28-C36	<10.0	10.0	08/07/2021	ND					

Surrogate: 1-Chlorooctane *80.8 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *74.3 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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

No Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name:	Etech Environmental & Safety Solutions, Inc.
Project Manager:	Lance Crenshaw
Address:	~~P.O. Box 301~~ 2617 W Marland
City:	~~Lovington~~ Hobbs
State:	NM
Zip:	~~88260~~ 88240
Phone #:	~~(575) 396-2378~~
Fax #:	~~(575) 396-1429~~
Project #:	14563
Project Owner:	Dean Ericson
Project Name:	Cajun Cajun Pipeline
Project Location:	
Sampler Name:	Eric Mojica

BILL TO

P.O. #:	
Company:	ETC
Attn:	Dean Ericson
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
H213070																	
1	NH1eSurf.	G	1			✓					✓		8-4-21		✓	✓	✓
2	NH1el	G	1			✓					✓		8-4-21		✓	✓	✓
3	EH1eSurf.	G	1			✓					✓		8-4-21		✓	✓	✓
4	EH1el	G	1			✓					✓		8-4-21		✓	✓	✓
5	EH2eSurf.	G	1			✓					✓		8-4-21		✓	✓	✓
6	EH2el	G	1			✓					✓		8-4-21		✓	✓	✓
7	SH1eSurf.	G	1			✓					✓		8-4-21		✓	✓	✓
8	SH1el	G	1			✓					✓		8-4-21		✓	✓	✓
9	WH1eSurf.	G	1			✓					✓		8-4-21		✓	✓	✓
10	WH1el	G	1			✓					✓		8-4-21		✓	✓	✓

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Relinquished By: Eric Mojica	Date: 8-4-21 Time: 1535	Received By: Tamara Oldaker	
Relinquished By:	Date: Time:	Received By:	

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

Please email results to pm@etechenv.com.

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 26.7c #113

Sample Condition: Cool ☐ Yes ☐ No; Intact ☑ Yes ☐ No
CHECKED BY: (Initials) T.O.

Brought straight to lab from field

FORM-006
Revision 1.0

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

Received by OCD: 10/20/2021 7:37:21 AM

Released to Imaging: 11/18/2021 1:27:38 PM

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

N. Rush

2 of 2

Company Name:	Etech Environmental & Safety Solutions, Inc.
Project Manager:	Lance Crenshaw
Address:	~~P.O. Box 301~~ 2617 W. Marland
City:	~~Levington~~ Hobbs State: NM Zip: ~~88260~~ 88240
Phone #:	~~(575) 396-2378~~ Fax #: ~~(575)~~ 396-1429
Project #:	14563 Project Owner:
Project Name:	Rajin Cajun Pipeline
Project Location:	
Sampler Name:	Eric Mojica

BILL TO

P.O. #:	
Company:	ETC
Attn:	Dean Ericson
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D. 1621 2070	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
11	WH 2 Surf.	G	1			✓					✓		8-4-21		✓	✓	✓
12	WH 2 1'	G	1			✓					✓		8-4-21		✓	✓	✓
13	SP1 e Surf.	G	1			✓					✓		8-4-21		✓	✓	✓
14	SP1 e 1'	G	1			✓					✓		8-4-21		✓	✓	✓
15	SP2 e Surf.	G	1			✓					✓		8-4-21		✓	✓	✓
16	SP2 e 1'	G	1			✓					✓		8-4-21		✓	✓	✓

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Relinquished By: Eric Mojica	Date: 8-4-21 Time: 1535	Received By: Tamara Oldham	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
			REMARKS:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 26.7°C #113

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

CHECKED BY: (Initials) TO

Please email results to pm@etechenv.com.

Brought straight to lab from field

FORM-006
Revision 1.0

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

Received by OCD: 10/20/2021 7:37:21 AM

Released to Imaging: 11/18/2021 1:27:38 PM

CARDINAL Laboratories

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

October 05, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RAJIN CAJIN PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 10/04/21 16:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	10/04/2021	Sampling Date:	10/04/2021
Reported:	10/05/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: NW 1 (H212741-01)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2021	ND	2.00	99.8	2.00	9.34	
Toluene*	<0.050	0.050	10/05/2021	ND	1.95	97.3	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/05/2021	ND	1.89	94.6	2.00	9.47	
Total Xylenes*	<0.150	0.150	10/05/2021	ND	5.75	95.8	6.00	9.22	
Total BTEX	<0.300	0.300	10/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2021	ND	237	119	200	2.03	
DRO >C10-C28*	<10.0	10.0	10/05/2021	ND	232	116	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2021	ND					

Surrogate: 1-Chlorooctane *88.3 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *84.1 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	10/04/2021	Sampling Date:	10/04/2021
Reported:	10/05/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: SW 1 (H212741-02)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2021	ND	2.00	99.8	2.00	9.34	
Toluene*	<0.050	0.050	10/05/2021	ND	1.95	97.3	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/05/2021	ND	1.89	94.6	2.00	9.47	
Total Xylenes*	<0.150	0.150	10/05/2021	ND	5.75	95.8	6.00	9.22	
Total BTEX	<0.300	0.300	10/05/2021	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2021	ND	237	119	200	2.03	
DRO >C10-C28*	<10.0	10.0	10/05/2021	ND	232	116	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2021	ND					

Surrogate: 1-Chlorooctane *85.7 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *81.8 %* *38.9-142*

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Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	10/04/2021	Sampling Date:	10/04/2021
Reported:	10/05/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: EW 1 (H212741-03)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2021	ND	2.00	99.8	2.00	9.34	
Toluene*	<0.050	0.050	10/05/2021	ND	1.95	97.3	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/05/2021	ND	1.89	94.6	2.00	9.47	
Total Xylenes*	<0.150	0.150	10/05/2021	ND	5.75	95.8	6.00	9.22	
Total BTEX	<0.300	0.300	10/05/2021	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2021	ND	237	119	200	2.03	
DRO >C10-C28*	<10.0	10.0	10/05/2021	ND	232	116	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2021	ND					

Surrogate: 1-Chlorooctane *83.7 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *80.8 %* *38.9-142*

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Analytical Results For:

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JOEL LOWRY
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	10/04/2021	Sampling Date:	10/04/2021
Reported:	10/05/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: EW 2 (H212741-04)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2021	ND	2.00	99.8	2.00	9.34	
Toluene*	<0.050	0.050	10/05/2021	ND	1.95	97.3	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/05/2021	ND	1.89	94.6	2.00	9.47	
Total Xylenes*	<0.150	0.150	10/05/2021	ND	5.75	95.8	6.00	9.22	
Total BTEX	<0.300	0.300	10/05/2021	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/05/2021	ND	416	104	400	0.00	

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2021	ND	237	119	200	2.03	
DRO >C10-C28*	<10.0	10.0	10/05/2021	ND	232	116	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2021	ND					

Surrogate: 1-Chlorooctane *87.8 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *83.6 %* *38.9-142*

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Analytical Results For:

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JOEL LOWRY
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	10/04/2021	Sampling Date:	10/04/2021
Reported:	10/05/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: WW 1 (H212741-05)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2021	ND	2.00	99.8	2.00	9.34	
Toluene*	<0.050	0.050	10/05/2021	ND	1.95	97.3	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/05/2021	ND	1.89	94.6	2.00	9.47	
Total Xylenes*	<0.150	0.150	10/05/2021	ND	5.75	95.8	6.00	9.22	
Total BTEX	<0.300	0.300	10/05/2021	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2021	ND	237	119	200	2.03	
DRO >C10-C28*	<10.0	10.0	10/05/2021	ND	232	116	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2021	ND					

Surrogate: 1-Chlorooctane *81.2 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *76.8 %* *38.9-142*

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Analytical Results For:

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JOEL LOWRY
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	10/04/2021	Sampling Date:	10/04/2021
Reported:	10/05/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: WW 2 (H212741-06)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2021	ND	2.00	99.8	2.00	9.34	
Toluene*	<0.050	0.050	10/05/2021	ND	1.95	97.3	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/05/2021	ND	1.89	94.6	2.00	9.47	
Total Xylenes*	<0.150	0.150	10/05/2021	ND	5.75	95.8	6.00	9.22	
Total BTEX	<0.300	0.300	10/05/2021	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2021	ND	237	119	200	2.03	
DRO >C10-C28*	<10.0	10.0	10/05/2021	ND	232	116	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2021	ND					

Surrogate: 1-Chlorooctane *81.3 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *76.5 %* *38.9-142*

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Analytical Results For:

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JOEL LOWRY
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	10/04/2021	Sampling Date:	10/04/2021
Reported:	10/05/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 1 @ 6' (H212741-07)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2021	ND	2.00	99.8	2.00	9.34	
Toluene*	<0.050	0.050	10/05/2021	ND	1.95	97.3	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/05/2021	ND	1.89	94.6	2.00	9.47	
Total Xylenes*	<0.150	0.150	10/05/2021	ND	5.75	95.8	6.00	9.22	
Total BTEX	<0.300	0.300	10/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/05/2021	ND	416	104	400	0.00	

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2021	ND	237	119	200	2.03	
DRO >C10-C28*	<10.0	10.0	10/05/2021	ND	232	116	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2021	ND					

Surrogate: 1-Chlorooctane *82.4 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *78.4 %* *38.9-142*

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Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	10/04/2021	Sampling Date:	10/04/2021
Reported:	10/05/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 2 @ 6' (H212741-08)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2021	ND	2.00	99.8	2.00	9.34	
Toluene*	<0.050	0.050	10/05/2021	ND	1.95	97.3	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/05/2021	ND	1.89	94.6	2.00	9.47	
Total Xylenes*	**0.207**	0.150	10/05/2021	ND	5.75	95.8	6.00	9.22	GC-NC1
Total BTEX	<0.300	0.300	10/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/05/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2021	ND	237	119	200	2.03	
DRO >C10-C28*	<10.0	10.0	10/05/2021	ND	232	116	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2021	ND					

Surrogate: 1-Chlorooctane *80.3 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *76.4 %* *38.9-142*

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Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	10/04/2021	Sampling Date:	10/04/2021
Reported:	10/05/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 3 @ 6' (H212741-09)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2021	ND	2.00	99.8	2.00	9.34	
Toluene*	<0.050	0.050	10/05/2021	ND	1.95	97.3	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/05/2021	ND	1.89	94.6	2.00	9.47	
Total Xylenes*	<0.150	0.150	10/05/2021	ND	5.75	95.8	6.00	9.22	
Total BTEX	<0.300	0.300	10/05/2021	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2021	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2021	ND	237	119	200	2.03	
DRO >C10-C28*	<10.0	10.0	10/05/2021	ND	232	116	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2021	ND					

Surrogate: 1-Chlorooctane *80.2 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *76.4 %* *38.9-142*

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Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	10/04/2021	Sampling Date:	10/04/2021
Reported:	10/05/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 4 @ 6' (H212741-10)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2021	ND	2.00	99.8	2.00	9.34	GC-NC
Toluene*	<0.050	0.050	10/05/2021	ND	1.95	97.3	2.00	8.86	GC-NC
Ethylbenzene*	<0.050	0.050	10/05/2021	ND	1.89	94.6	2.00	9.47	
Total Xylenes*	**12.3**	0.150	10/05/2021	ND	5.75	95.8	6.00	9.22	GC-NC1
Total BTEX	**12.3**	0.300	10/05/2021	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *380 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	10/05/2021	ND	416	104	400	0.00	

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**585**	10.0	10/05/2021	ND	237	119	200	2.03	
DRO >C10-C28*	**223**	10.0	10/05/2021	ND	232	116	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2021	ND					

Surrogate: 1-Chlorooctane *133 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *79.7 %* *38.9-142*

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received:	10/04/2021	Sampling Date:	10/04/2021
Reported:	10/05/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 5 @ 6' (H212741-11)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2021	ND	2.00	99.8	2.00	9.34	
Toluene*	<0.050	0.050	10/05/2021	ND	1.95	97.3	2.00	8.86	GC-NC
Ethylbenzene*	<0.050	0.050	10/05/2021	ND	1.89	94.6	2.00	9.47	
Total Xylenes*	**4.59**	0.150	10/05/2021	ND	5.75	95.8	6.00	9.22	GC-NC1
Total BTEX	**4.59**	0.300	10/05/2021	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *233 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/05/2021	ND	416	104	400	0.00	

TPH 8015M — **mg/kg** — **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**139**	10.0	10/05/2021	ND	237	119	200	2.03	
DRO >C10-C28*	**82.8**	10.0	10/05/2021	ND	232	116	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2021	ND					

Surrogate: 1-Chlorooctane *106 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *77.1 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

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JOEL LOWRY
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Fax To:

Received:	10/04/2021	Sampling Date:	10/04/2021
Reported:	10/05/2021	Sampling Type:	Soil
Project Name:	RAJIN CAJIN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	14563	Sample Received By:	Tamara Oldaker
Project Location:	ETC - LEA CO NM		

Sample ID: FL 6 @ 6' (H212741-12)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2021	ND	2.00	99.8	2.00	9.34	GC-NC
Toluene*	<0.050	0.050	10/05/2021	ND	1.95	97.3	2.00	8.86	GC-NC
Ethylbenzene*	<0.050	0.050	10/05/2021	ND	1.89	94.6	2.00	9.47	
Total Xylenes*	**17.5**	0.150	10/05/2021	ND	5.75	95.8	6.00	9.22	GC-NC1
Total BTEX	**17.5**	0.300	10/05/2021	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *447 %* *69.9-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	10/05/2021	ND	416	104	400	0.00	

TPH 8015M — **mg/kg** — **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**702**	10.0	10/05/2021	ND	237	119	200	2.03	
DRO >C10-C28*	**243**	10.0	10/05/2021	ND	232	116	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	10/05/2021	ND					

Surrogate: 1-Chlorooctane *123 %* *44.3-133*

Surrogate: 1-Chlorooctadecane *66.1 %* *38.9-142*

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ETech Environmental	**BILL TO**
Project Manager: Joel Lowry	P.O. #:
Address: 2617 Marland	Company: ETC
City: Hobbs State: NM Zip: 88240	Attn:
Phone #: 575-464-2800 Fax #:	Address:
Project #: 14563 Project Owner: ETC	City:
Project Name: Rajia Cajun Pipeline	State: Zip:
Project Location: Rural Lea Co, NM	Phone #:
Sampler Name: Miguel Ramirez	Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chlorides	BTEX	TPH
H212741																	
1	NW1	C	1			X					X		10/4/21		X	X	X
2	SW1	↓	↓			↓					↓		↓		↓	↓	↓
3	EW1																
4	EW2																
5	WW1																
6	WW2																
7	FL 1 @ 6'																
8	FL 2 @ 6'																
9	FL 3 @ 6'																
10	FL 4 @ 6'																

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Relinquished By: [signature] Date: 10-4-21 Time: 1635 Received By: [signature]

Relinquished By: Date: Time: Received By:

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

REMARKS: pm@etechenv.com Rush Please

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C 5.7
Corrected Temp. °C 5.2

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

CHECKED BY: (Initials) T.O.

Turnaround Time: Standard ☐ Rush ☑

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No

Observed Temp. °C
Corrected Temp. °C

Thermometer ID #113
Correction Factor ~~None~~ -0.5 @ T.O. [illegible]

FORM-006 R 3.1 06/04/20

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

Received by OCD: 10/20/2021 7:37:21 AM

Released to Imaging: 11/18/2021 1:27:38 PM

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ETech Environmental S	**BILL TO**
Project Manager: Joel Lowry	P.O. #:
Address: 2617 Marland	Company: ETC
City: Hobbs State: NM Zip: 88240	Attn:
Phone #: 575-964-2880 Fax #:	Address:
Project #: 14563 Project Owner: ETC	City:
Project Name: Rogin Cajun Pipeline	State: Zip:
Project Location: Rural Lea Co, NM	Phone #:
Sampler Name: Miguel Ramirez	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST									
H212741																								
11	FL5 @ 6'	C	1			X					X		10/4/21		X	X	X							
12	FL6 @ 6'	↓	↓			↓					↓		↓		↓	↓	↓							

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Relinquished By: [signature]	Date: 10-4-21 Time: 1635	Received By: [signature]	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Time:	Received By:	REMARKS: Pm@etechenv.com Rush pkwx
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 5.7 Corrected Temp. °C 5.2	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) TO.
Turnaround Time: Standard ☐ Rush ☑	Bacteria (only) Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	Observed Temp. °C Corrected Temp. °C	Thermometer ID #113 Correction Factor ~~None~~ -0.5°C TO 10/4/21

FORM-006 R 3.1 06/04/20

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

Received by OCD: 10/20/2021 7:37:21 AM

Released to Imaging: 11/18/2021 1:27:38 PM

Appendix D
Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: South	
Photo Description: View of the affected area.	

Photo Number: 2	
Photo Direction: Southeast	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	
Photo Direction: Southwest	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	
Photo Direction: North	
Photo Description: View of the excavated area.	

Photo Number: 6	
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 7	
Photo Direction: South-Southeast	
Photo Description: View of the remediated area after backfilling and regrading.	

Photo Number: 8	
Photo Direction: Northeast	
Photo Description: View of the remediated area after backfilling and regrading.	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 56839

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 56839
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	11/18/2021