

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 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.

Oil Conservation Division

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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:  Date: 10/20/2021

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

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2121030753
District RP	
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Application ID	

Closure

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

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

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

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

Printed Name: Carolyn Blackaller Title: Sr. Environmental Specialist
 Signature:  Date: 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:  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:

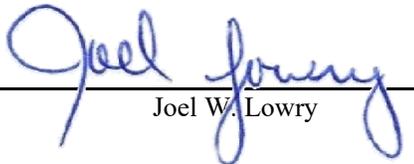
Etech Environmental & Safety Solutions, Inc.

2507 79th St., Unit A

Lubbock, Texas 79423-2211



Ben J. Arguijo



Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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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?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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

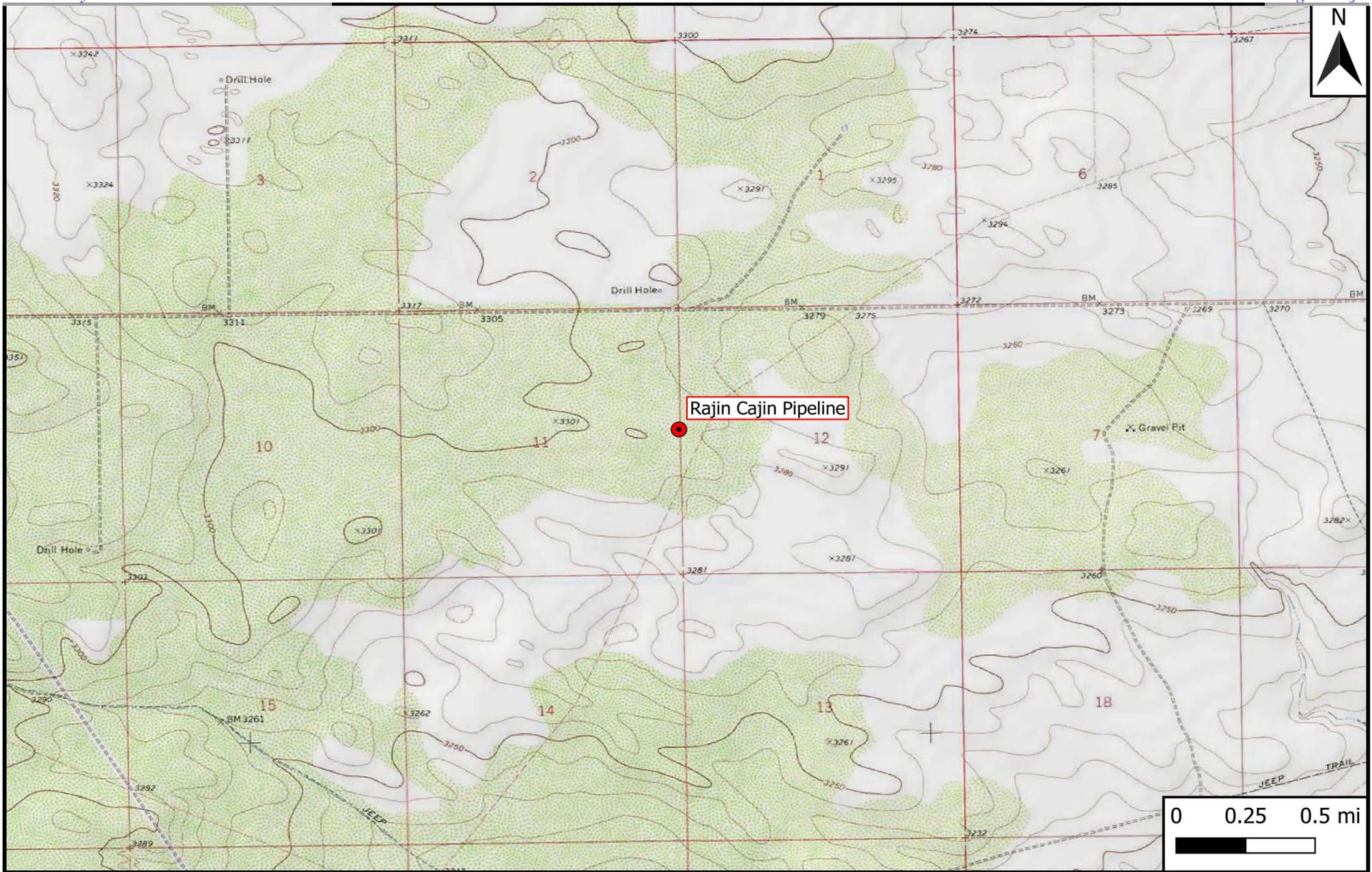
620 E. Greene Street

Carlsbad, NM 88220

(Electronic Submission)

Figure 1

Topographic Map



Legend

● Site Location

Figure 1

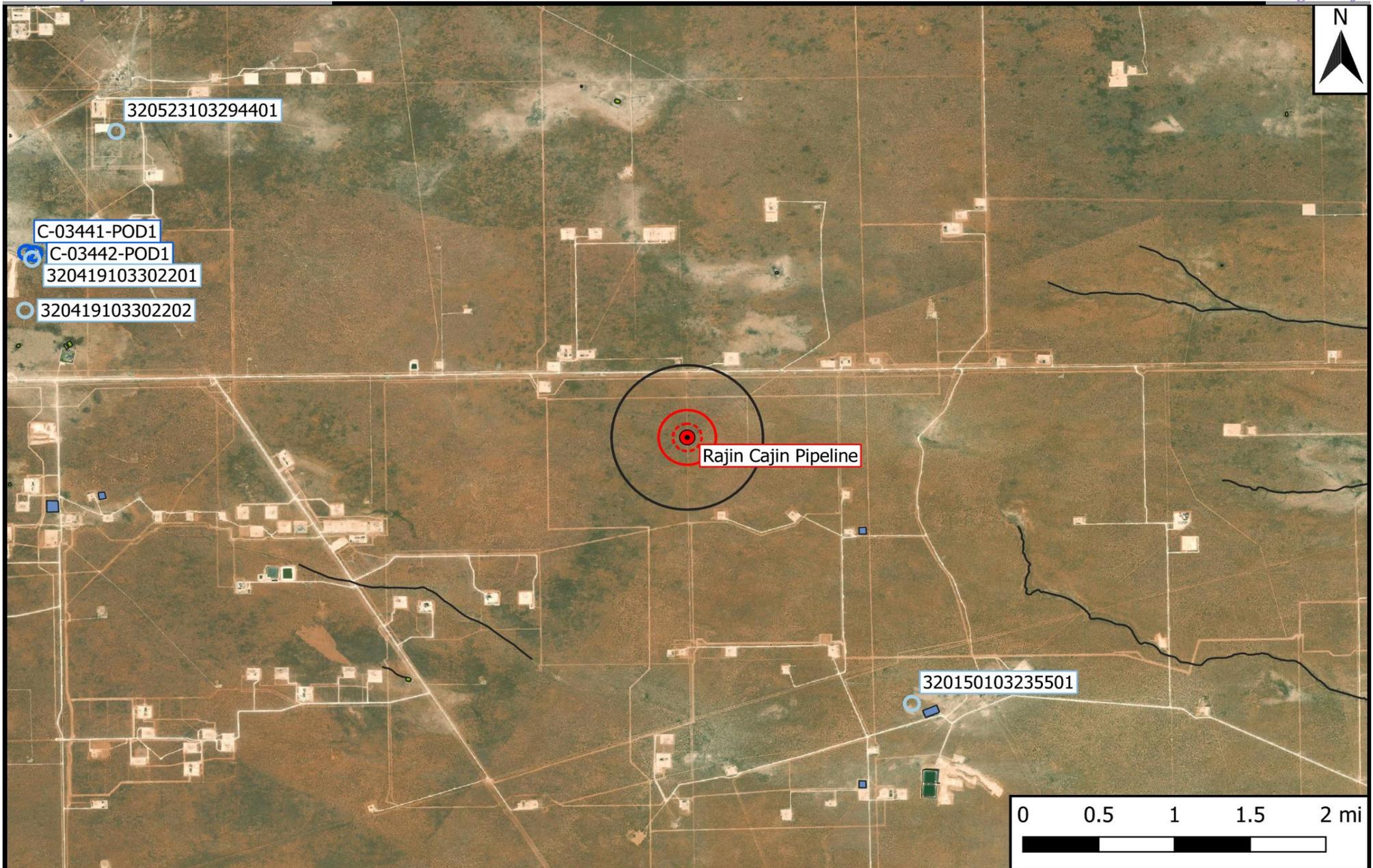
Topographic Map
 ETC Texas Pipeline, Ltd.
 Rajin Cajin Pipeline
 GPS: 32.05845, -103.43224
 Lea County



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	

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



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

Figure 3

Site & Sample Location Map



Legend

- Excavation Extent
- Pipeline
- Auger Hole
- X 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



 Environmental & Safety Solutions, Inc.

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

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

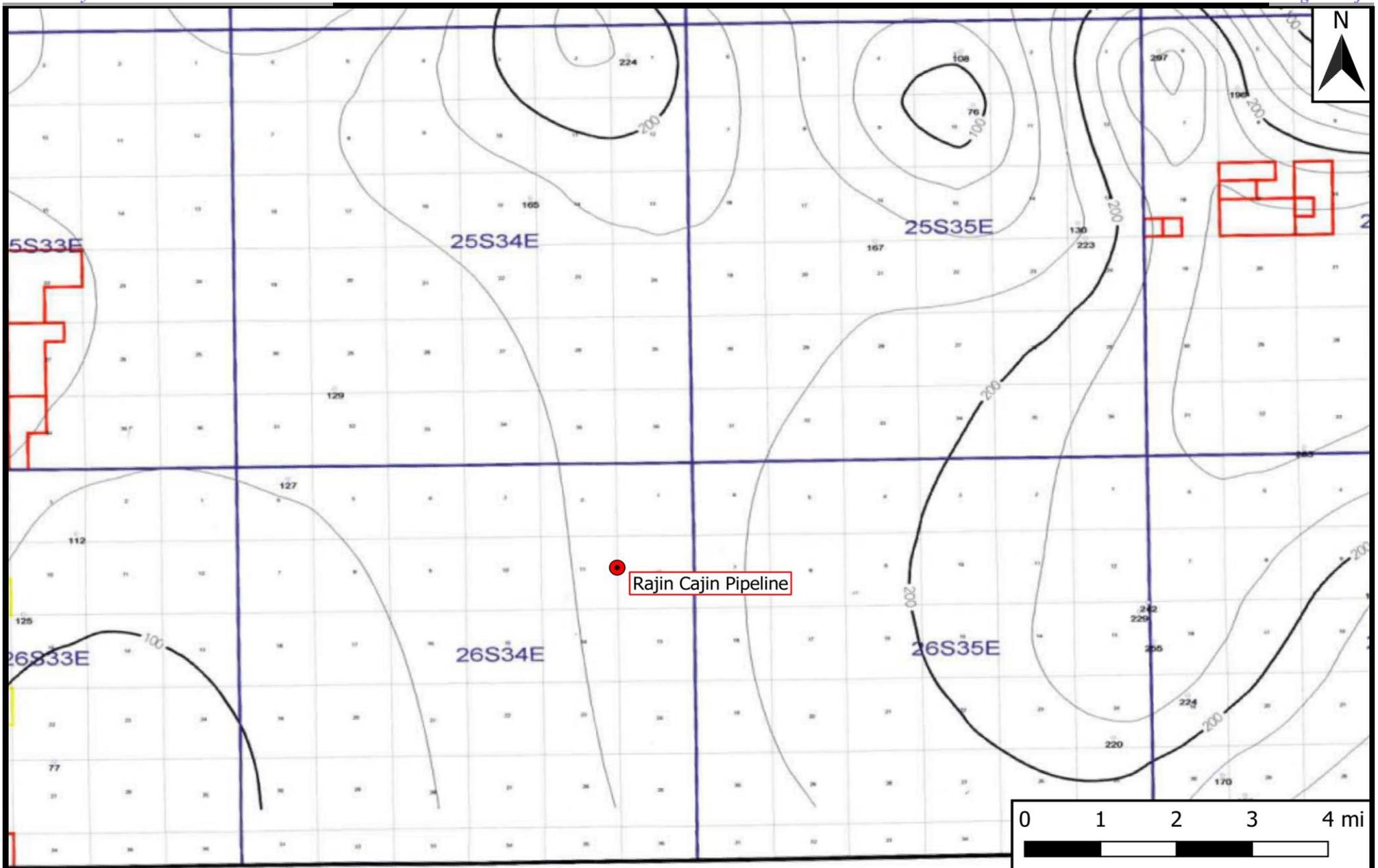
Table 1 Concentrations of BTEX, TPH & Chloride in Soil ETC Texas Pipeline, Ltd. Rajin Cajin Pipeline NMOCD Ref. #: nAPP2121030753											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				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



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



New Mexico Office of the State Engineer

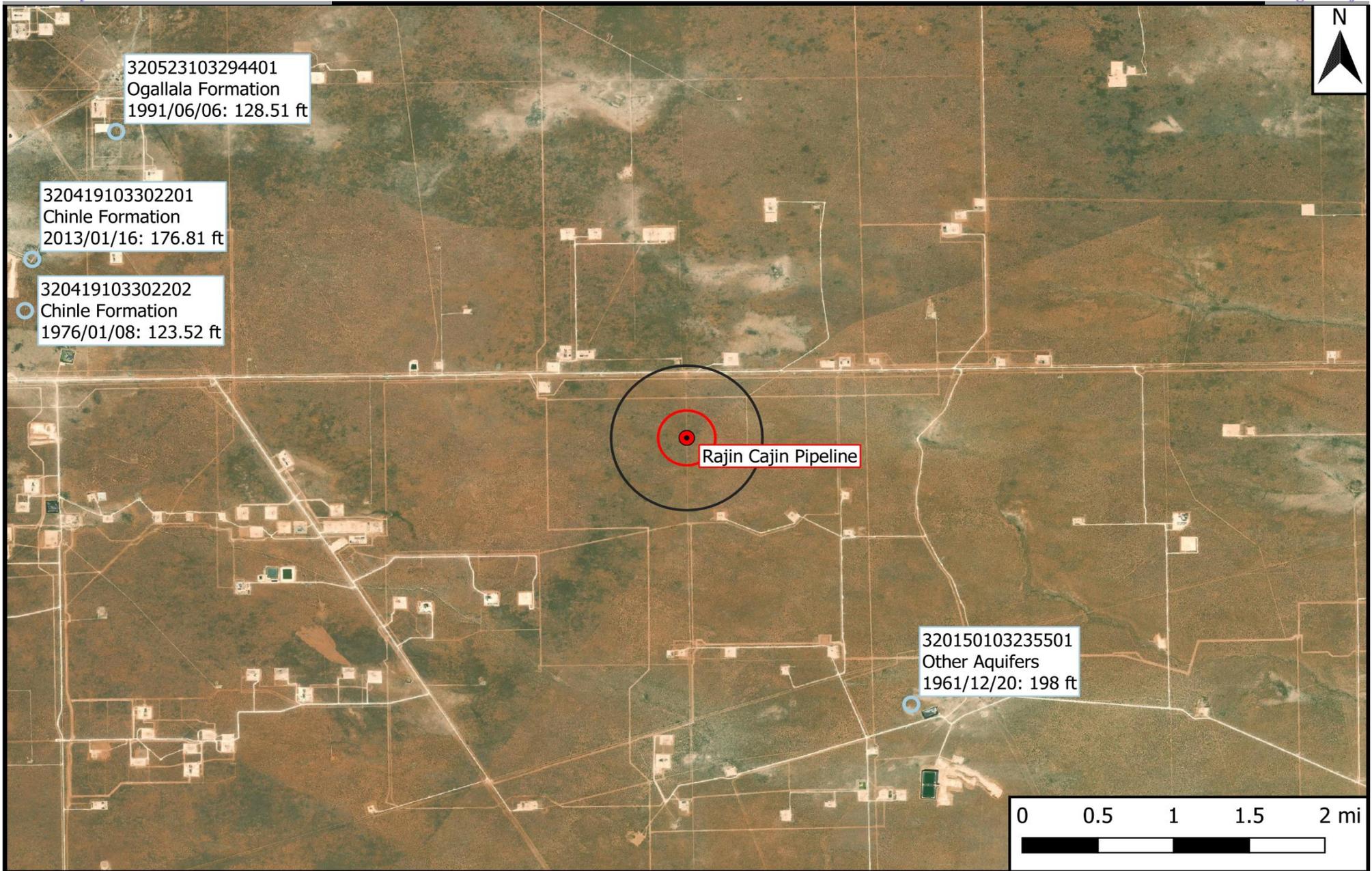
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)	
		(quarters are smallest to largest)				X	Y
		Q64	Q16	Q4	Sec	Tws	Rng
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.

7/30/21 9:46 AM

POINT OF DIVERSION SUMMARY



- 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



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



USGS Home
 Contact USGS
 Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

[Click for News Bulletins](#)

[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](#)

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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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Title: Groundwater for USA: Water Levels

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

Page Contact Information: [USGS Water Data Support Team](#)

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0.39 0.26 nadww01





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Agency code = usgs

site_no list =

- 320419103302201

Minimum number of levels = 1

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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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Title: Groundwater for USA: Water Levels

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0.35 0.24 nadww01





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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320419103302202

Minimum number of levels = 1

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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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Title: Groundwater for USA: Water Levels

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



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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

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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

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0.37 0.23 nadww01



Appendix B Field Data

Appendix C

Laboratory Analytical Reports



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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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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, SM4500CI-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
 Reported: 08/09/2021
 Project Name: RAJIN CAJIN PIPELINE
 Project Number: 14563
 Project Location: ETC -

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

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, SM4500CI-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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Analytical Results For:

Etech Environmental & Safety Solutions
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 HOBBS NM, 88240
 Fax To:

Received: 08/04/2021
 Reported: 08/09/2021
 Project Name: RAJIN CAJIN PIPELINE
 Project Number: 14563
 Project Location: ETC -

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

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, SM4500CI-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, SM4500CI-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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 08/09/2021
 Project Name: RAJIN CAJIN PIPELINE
 Project Number: 14563
 Project Location: ETC -

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

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:

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: 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, SM4500CI-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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 08/09/2021
 Project Name: RAJIN CAJIN PIPELINE
 Project Number: 14563
 Project Location: ETC -

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

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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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
 Reported: 08/09/2021
 Project Name: RAJIN CAJIN PIPELINE
 Project Number: 14563
 Project Location: ETC -

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

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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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: 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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Celey D. Keene, Lab Director/Quality Manager



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: 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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Celey D. Keene, Lab Director/Quality Manager



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: 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, SM4500CI-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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Celey D. Keene, Lab Director/Quality Manager



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 @ 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



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, SM4500CI-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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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



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
 Reported: 08/09/2021
 Project Name: RAJIN CAJIN PIPELINE
 Project Number: 14563
 Project Location: ETC -

Sampling Date: 08/04/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

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



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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

Celey D. Keene, Lab Director/Quality Manager



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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



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
 Reported: 10/05/2021
 Project Name: RAJIN CAJIN PIPELINE
 Project Number: 14563
 Project Location: ETC - LEA CO NM

Sampling Date: 10/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 10/05/2021
 Project Name: RAJIN CAJIN PIPELINE
 Project Number: 14563
 Project Location: ETC - LEA CO NM

Sampling Date: 10/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, SM4500CI-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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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 10/05/2021
 Project Name: RAJIN CAJIN PIPELINE
 Project Number: 14563
 Project Location: ETC - LEA CO NM

Sampling Date: 10/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, SM4500CI-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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 10/05/2021
 Project Name: RAJIN CAJIN PIPELINE
 Project Number: 14563
 Project Location: ETC - LEA CO NM

Sampling Date: 10/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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: 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, SM4500CI-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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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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 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, SM4500CI-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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Celey D. Keene, Lab Director/Quality Manager



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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, SM4500CI-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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Celey D. Keene, Lab Director/Quality Manager



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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, SM4500CI-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, SM4500CI-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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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, SM4500CI-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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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 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, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	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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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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental		BILL TO		ANALYSIS REQUEST					
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		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		Chlorides	BTEX	TPH	
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:				DATE
H212741		C	1			X					X					
1 NW1																
2 SW1																
3 EW1																
4 EW2																
5 NW1																
6 NW2																
7 FL1 @ 6'																
8 FL2 @ 6'																
9 FL3 @ 6'																
10 FL4 @ 6'																

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Relinquished By:	Date: 10-4-21	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Time: 1635	Received By:	All Results are emailed. Please provide Email address:
Date:	Time:	REMARKS: pm@etechenv.com	Rush please
Delivered By: (Circle One)	Observed Temp. °C 5.7	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C 5.2	CHECKED BY: (Initials) T.O.	Bacteria (only) Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 Correction Factor None -0.5°C

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

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	 <p>Oct 12, 2021 at 5:32:25 PM Jal NM 88252 United States</p> <p>32.058805,-103.432268</p>
Photo Direction: South-Southeast	
Photo Description: View of the remediated area after backfilling and regrading.	

Photo Number: 8	 <p>Oct 12, 2021 at 5:35:30 PM Jal NM 88252 United States</p> <p>32.058584,-103.432313</p>
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

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

CONDITIONS
 Action 56841

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 56841
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

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