Received by OCD: 4/6/2020 10:25:59 AM Form C-141 State of New Mexico Page 3 Oil Conservation Division

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Incident ID	
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.

This information must be provided to the appropriate district office no tales than 50 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	150 (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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soi
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 well ✓ Field data ✓ Data table of soil contaminant concentration data ✓ Depth to water determination 	ls.

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.

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Boring or excavation logs

✓ Topographic/Aerial maps

✓ Photographs including date and GIS information

✓ Laboratory data including chain of custody

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		,	
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I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a thre addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Ralph Tijerina	Title: Director EHS
Signature: Ralph Tijerina	Date: 3/23/2020
email: rtijerina@goodnightmidstream.com	Telephone: 214-587-4964
OCD Only	
Received by:	Date:

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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 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Ralph Tijerina	Title: Director EHS
	Date: 3/23/2020
email: rtijerina@goodnightmidstream.com	Telephone: 214-587-4964
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Remediation Summary and Soil Closure Request

Goodnight Midstream Permian, LLC Wrigley to Piper Pipeline

Lea County, New Mexico
Unit Letter O, Section 13, Township 21 South, Range 36 East
Latitude 32.472852 North, Longitude 103.217223 West
NMOCD Reference No. 1RP-pending

Prepared By:

Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway Lovington, New Mexico 88260

Lance Crenshaw

Joel W. Lowry



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APPENDICES

- Appendix A Depth to Groundwater Information
- Appendix B Field Data and Soil Profile Logs
- Appendix C Laboratory Analytical Reports
- Appendix D Photographic Log

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream Permian, LLC, has prepared this Remediation Summary and Soil Closure Request for the Release Site known as the Wrigley to Piper Pipeline. Details of the release are summarized below:

Latitude:		32.4	172852		Longi	tude:		-103.217223	
				Provide	ed GPS are in WGS	84 format.			
Site Name: Wrigley to Piper Pipeline Site Type: Pipeline Date Release Discovered: 11/8/2019 API # (if applicable):									
Date Release Dis	scovered	:	11/	8/2019	API # (if	applicab	ole):		
Unit Letter	Sect	ion	To	wnship	Range		County		
0	13	3		21S	36E		Lea		
Surface Owner:	X Stat	e	Federal	Tribal	X Private	(Name		Dasco Land and	Cattle
			-	— Vature ai	— nd Volume	of Re	leace		
			-	Nature a	ila volullic	OI KC	icasc		
X Crude Oil		Volur	ne Releas	ed (bbls)	3		Volume Reco	vered (bbls)	0
X Produced V	Vater	Volur	ne Releas	ed (bbls)	590.2		Volume Reco	0	
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?							J/A		
Condensate	,	Volur	ne Releas	ed (bbls)			Volume Reco	vered (bbls)	
Natural Gas	S	Volur	ne Releas	ed (Mcf)			Volume Reco	vered (Mcf)	
Other (desc	ribe)	Volun	ne/Weight	Released			Volume/Weigh	nt Recovered	
Cause of Release The release was		ed to	a failure i	n the pipelir	ne connecting	the Wrig	aley and Piper S	SWDs.	
				Iı	nitial Respo	onse			
X The source	of the re	lease h	as been st	opped.					
X The impacte	d area ha	as beer	secured t	o protect hui	nan health and	the envi	ronment.		
X Release mat	erials ha	ve bee	en containe	ed via the use	e of berms or d	ikes, abs	orbent pad, or o	ther containmer	nt devices
				rials have be					

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 Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	15	0 Ft.
Did the release impact groundwater or surface water?	Yes	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X 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	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X 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	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	X Yes	No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Closure Criteria for Soil Impacted by a Release									
Probable Depth to Groundwater	Constituent	Method	Limit						
150 Ft.	Chloride	EPA 300.0 or SM4500 Cl B	20000 mg/kg						
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg						
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg						
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg						
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg						

4.0 REMEDIATION ACTIVITIES SUMMARY

On November 11, 12 and 15, 2019, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores (SP 1 through SP 10) were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores (NH1 - NH5, EH1 - EH 5, SH1 - SH5 and WH1-WH5) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, sixty-two (62) delineation soil samples were submitted to the laboratory for confirmation analysis of BTEX, TPH and/or Chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond 1 Ft. to 4 Ft. bgs and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined. Sample locations are depicted on Figure 4 - Site & Sample Location Map (Delineation). Concentrations of benzene, BTEX, TPH and chloride from delineation samples are summarized in Table 1a. Laboratory Analytical Reports are provided in Appendix C.

Upon conducting the initial release assessment, the NMOCD was provided with an information packet depicting relevant NMOCD Siting Criteria. Based on site conditions, laboratory analytical results from delineation soil samples and the size of the release, an alternative sampling plan consisting of the collection of excavation confirmation soil samples representing every 600 sq. ft. was proposed to the NMOCD; the alternative sampling plan was subsequently approved.

On December 2, 2019, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, atop an impermeable plastic liner, pending final disposition at an NMOCD-approved surface waste facility. The floor and sidewalls of the excavation were advanced until field observations and/or test results suggested BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

On December 2, 2019, Etech collected four (4) excavation confirmation soil samples (FS1 - FS4) from the floor of the excavated area. The collected soil samples were field-screened for concentrations of chloride utilizing a Hach Quantab ® chloride test kit. The collected soil samples were then submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 3, 2019, Etech collected sixteen (16) excavation confirmation soil samples (FS5-FS10, WW1A, WW2B, WW3B, WW4A, WW5A and WW6 -WW10) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 4, 2019, Etech collected sixteen (16) excavation confirmation soil samples (WW11A, NW1A, SW1A, SW2b, SW3A, SW4, EW1B, EW2A, EW3A, EW4, EW5A, EW6, EW7, EW8, EW13 and EW14) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 5, 2019, Etech collected twelve (12) excavation confirmation soil samples (FS11-FS16, SW5, SW6b, EW9, EW10A, EW11C and EW12) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 6, 2019, Etech collected eight (8) excavation confirmation soil samples (FS17 - FS24) from the floor of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 9, 2019, Etech collected thirty-four (34) excavation confirmation soil samples (FS27-FS47, WW12, WW14, WW15B, NW2, NW3A, NW4, NW5A, NW6, NW7A, NW8, SW7C, SW8 and SW9) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 10, 2019, Etech collected twenty-six (26) excavation confirmation soil samples (FS48 - FS61, NW9A, NW10, NW11B, NW12 - NW14, SW10, SW11A, SW12, SW13, SW14A and FS62A) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 11, 2019, Etech collected twenty-four (24) excavation confirmation soil samples (FS63 - FS-69, NW15, NW16A, NW17 - NW19, NW20A, NW21, NW22, NW29, SW15, SW16 - SW18, SW19A and SW20 - SW22) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 12, 2019, Etech collected twenty-one (21) excavation confirmation soil samples (FS70A, FS71-FS73, FS74B, FS75A, FS76, FS77A, NW23A, NW24-NW27, NW28A, SW23-SW25, SW26A, SW27, SW28 and SW29A) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 16, 2019, Etech collected three (3) excavation confirmation soil samples (FS78A, FS79 and NW30) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 17, 2019, Etech collected seventeen (17) excavation confirmation soil samples (FS80 - FS85, WWN1D, NW30F, NW31A, NW32 - NW34, SW31 - SW34 and EWN1) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 18, 2019, Etech collected seventeen (17) excavation confirmation soil samples (FS86 - FS88, FS89B, FS90 - FS92, NW35, NW36, NW37A, NW38, NW39, SW35, SW36A, SW37, SW38B and SW39) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 19, 2019, Etech collected ten (10) excavation confirmation soil samples (FS93A, FS94A, FS95A, FS96, FS97 NW40A, NW41, SW40, SW41A and SW42) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On December 30, 2019, Etech collected seven (7) excavation confirmation soil samples (SFFL1, SFFL2, SFWW1, SFWW2, EW15, SFEW1 and SFEW2) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil sample EW 15, which exhibited a chloride concentration of 823 mg/kg. The excavation was advanced in the area characterized by soil sample EW 15.

On December 31, 2019, Etech collected seven (7) excavation confirmation soil samples (SFFL3, SFFL4, WW12, SFWW3B, SFWW4, SFEW3 and SFE4) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil sample SFWW3, which exhibited a chloride concentration of 1,380 mg/kg. The excavation was advanced in the area characterized by soil sample SFWW3.

On January 2, 2020, Etech collected six (6) excavation confirmation soil samples (SFFL5, SFFL6. SFWWB5, SFWW6, SFEWB5 and SFEW6) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On January 3, 2020, Etech collected eleven (11) excavation confirmation soil samples (SFFS7 - SFFS10, SFWW7 - SFWW9, SFEW7, SFEW8A, SFEW9A and SFEW10) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On January 6, 2020, Etech collected twenty-one (21) excavation confirmation soil samples (SFFS11, SFFS12, SFF13B, SFFS14-SFFS17, SFWW11 - SFWW17, SFEW11A, SFEW12, SFEW13C, SFEW14, SFEW15B, SFEW16 and SFEW17) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil samples SFEW12 which exhibited a chloride concentration of 3,190 mg/kg, SFEW14 which exhibited a chloride concentration of 3,210 mg/kg and SFEW17 which exhibited a chloride concentration of 2,990 mg/kg. The excavation was advanced in the areas characterized by soil samples SFEW12, SFEW14 and SFEW17.

On January 8, 2020, Etech collected six (6) excavation confirmation soil samples (SFFS18, SFFS19, SFWW18C, SFWW19, SFEW19, SFEW20B) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On January 9, 2020, Etech collected four (4) excavation confirmation soil samples (SFFS20, SFFS21, SFEW21A and SFEW22) from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On January 13, 2020, Etech collected five (5) excavation confirmation soil samples (SFWW22B, SFWW23B, SFWW24B, SFWW25 and SFWW26B) from the sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On January 18, 2020, Etech collected one (1) excavation confirmation soil sample (SFEW18) from the sidewall of the excavated area and submitted the soil sample to the laboratory for analysis of chloride concentrations which were determined

to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.

On January 22, 2020, Etech collected four (4) excavation confirmation soil samples (EW15B, SFEW12B, SFEW14B and SFEW17B) from the sidewalls of the excavated areas characterized by soil samples EW15, SFEW12, SFEW14 and SFEW17 and submitted them to the laboratory for analysis of chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.

On February 3, 2020, Etech collected five (5) excavation confirmation soil samples (NW42A, NW43B, NW44B, NW45A and EWN2) from the sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil sample NW44B which exhibited a chloride concentration of 631 mg/kg. The excavation was advanced in the area characterized by soil sample NW44B.

On February 6, 2020, Etech collected one (1) excavation confirmation soil sample (NW44C) from the excavated area characterized by soil sample NW44B and submitted them to the laboratory for analysis of chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard.

An "Overview Map" is provided as Figure 3. "Site & Sample Location Maps" are provided as Figures 5a-5f. Concentrations of benzene, BTEX, TPH and chloride from excavation confirmation soil samples are summarized in Table 1b. Field data and soil profile logs, if applicable, are provided as Appendix B.

The final dimensions of the excavated area were 2,266 Ft. in length, 10 Ft. to 175 Ft in width and ranged from 3 to 4 Ft. in depth. During the course or remediation activities approximately 17,500 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

5.0 RESTORATION, RECLAMATION AND 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 contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas 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.

6.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Goodnight Midstream Permian, LLC provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the Wrigley to Piper Pipeline Site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Report and Proposed Remediation Workplan 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 Goodnight Midstream Permian, LLC. Use of the information contained in this report is prohibited within the consent of Etech and/or Goodnight Midstream Permian, LLC.

8.0 DISTRIBUTION

Goodnight Midstream Permian, LLC 5910 N Central Expy Dallas, TX 75206

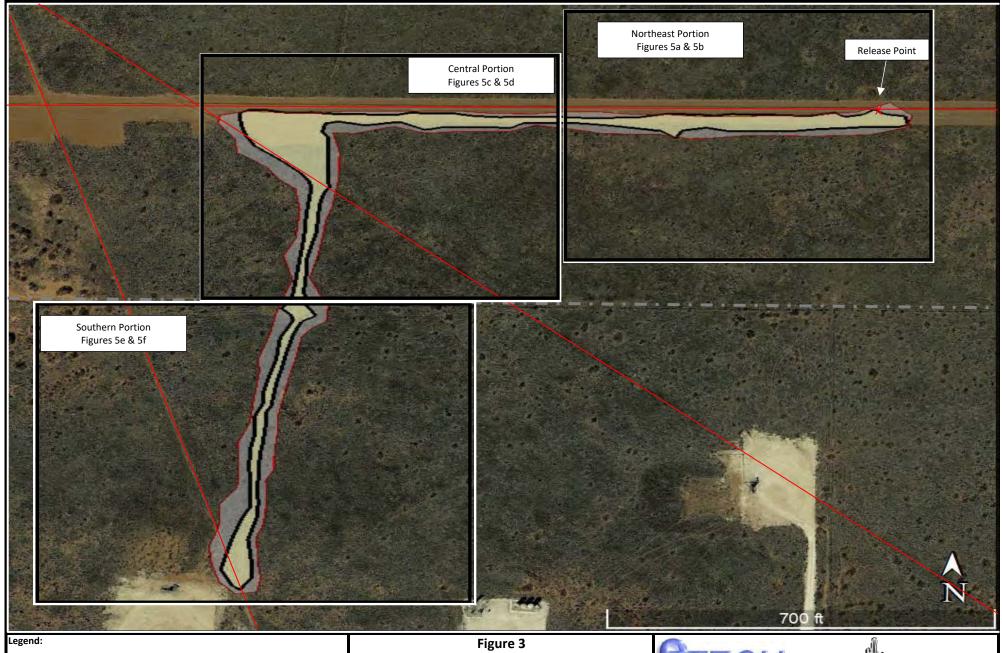
New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

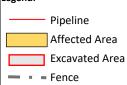
Hobbs Field Office

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

(Electronic Submission)

Figures





Overview Map Goodnight Midstream Permian, LLC Wrigley to Piper Pipeline GPS: 32.472852, -103.217223 Lea County

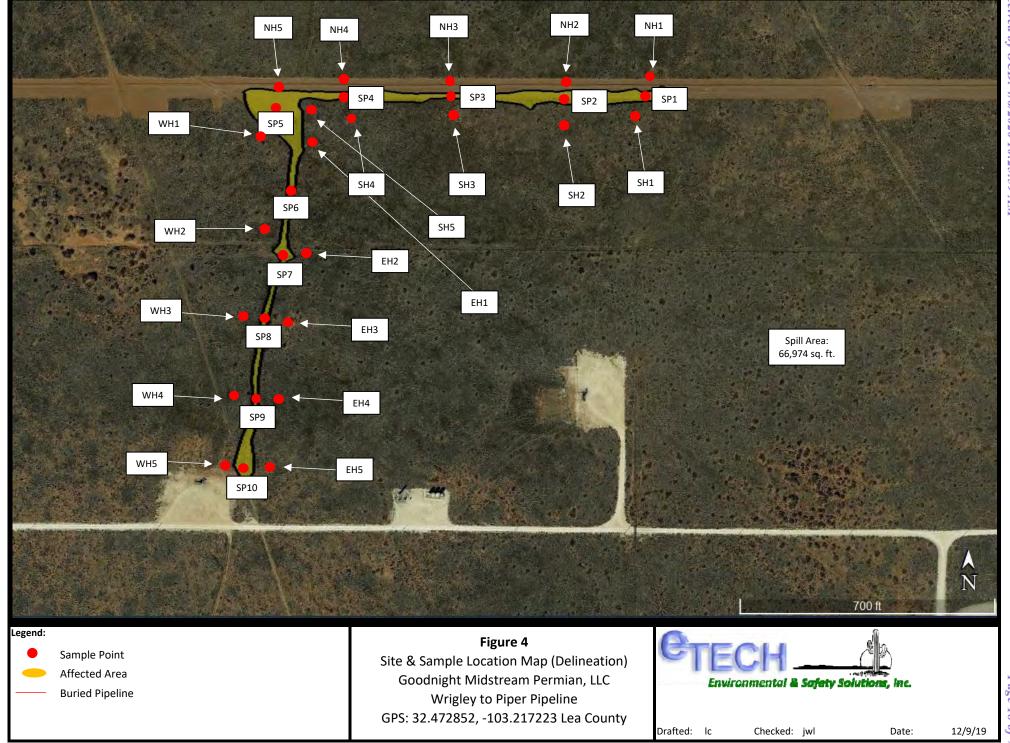


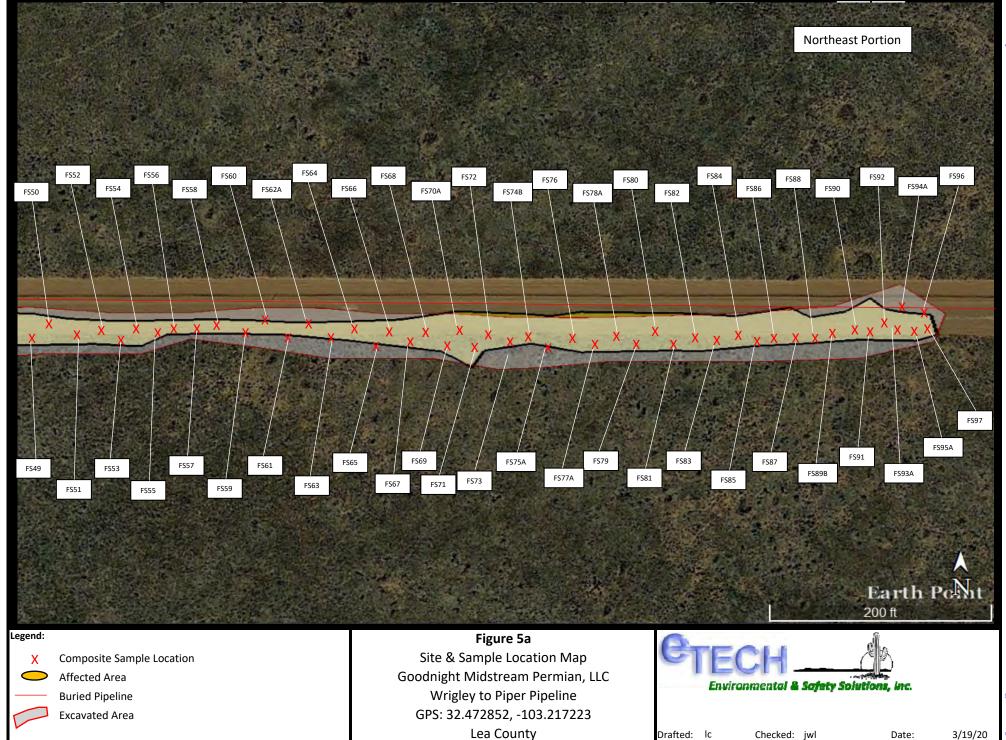
Drafted: Ic

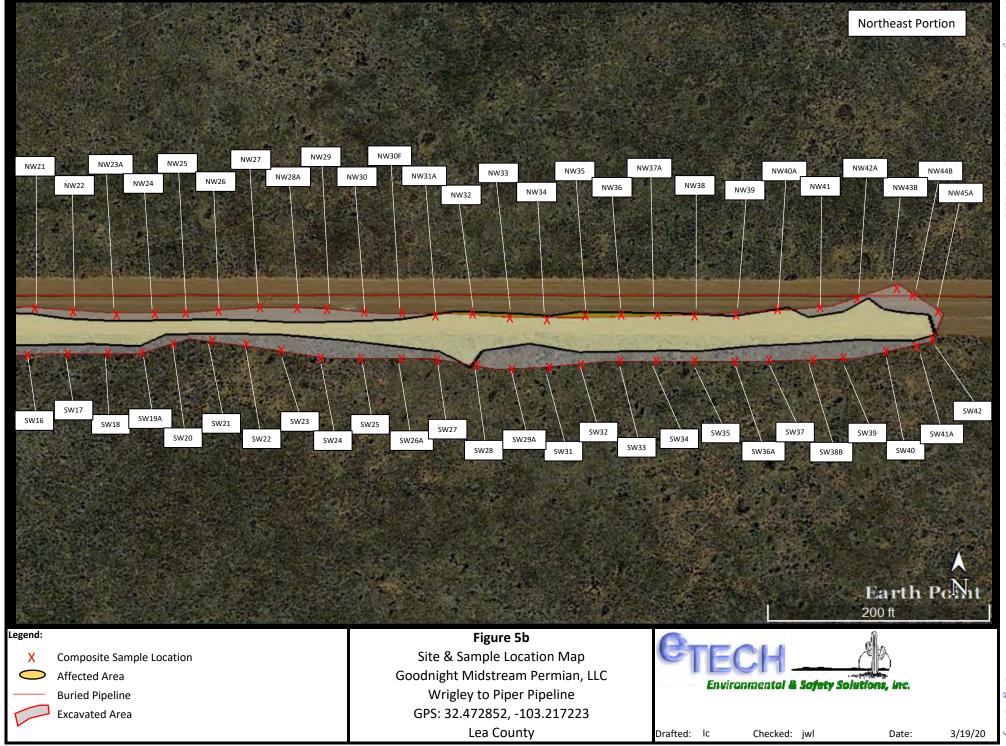
Checked: jwl

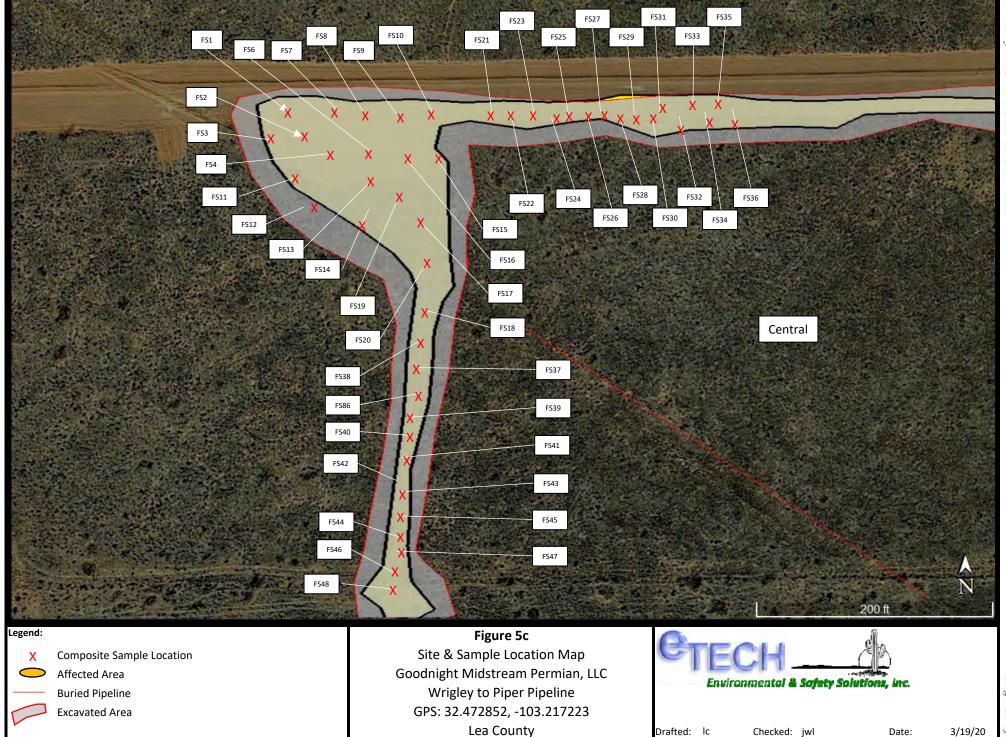
Date:

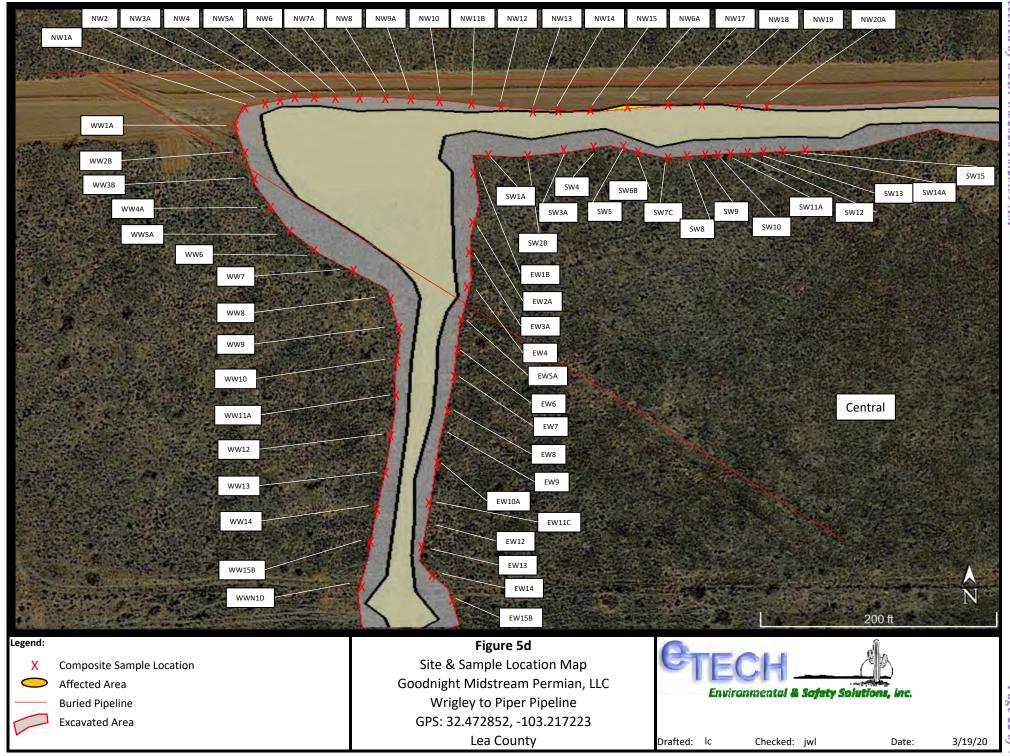
3/18/20













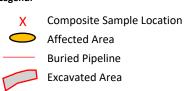


Figure 5e

Site & Sample Location Map Goodnight Midstream Permian, LLC Wrigley to Piper Pipeline GPS: 32.472852, -103.217223 Lea County

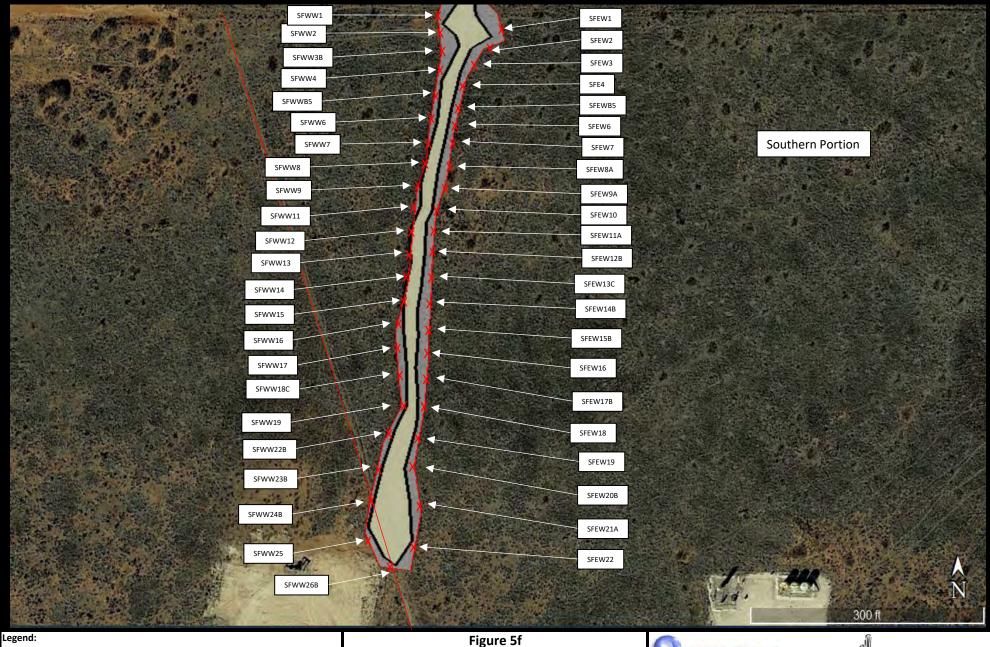


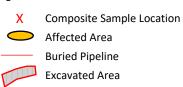
Drafted: lc

Checked: jwl

Date:

3/19/20





Site & Sample Location Map Goodnight Midstream Permian, LLC Wrigley to Piper Pipeline

GPS: 32.472852, -103.217223 Lea County



Drafted: lc

Checked: jwl

Date:

3/19/20

Tables

TABLE 1a

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL (Delineation)

Goodnight Midstream Permian, LLC Wrigley to Piper Pipeline

NMOCD Ref. #: 1RP-pending											
				SW 840	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP1	11/12/2019	Surf	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,360
SP1	11/15/2019	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP2	11/12/2019	Surf	Excavated	< 0.050	0.44	<10.0	11.3	11.3	<10.0	11.3	5,760
SP2	11/15/2019	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SP3	11/12/2019	Surf	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,600
SP3	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP4	11/12/2019	Surf	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,480
SP4	11/12/2019	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP5	11/12/2019	Surf	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	18,200
SP5	11/15/2019	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP6	11/12/2019	Surf	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,000
SP6	11/15/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,680
SP6	11/15/2019	5'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,550
SP7	11/12/2019	Surf	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	13.9	13.9	8,640
SP7	11/15/2019	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP8	11/12/2019	Surf	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	13,600
SP8	11/15/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
SP9	11/12/2019	Surf	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	12.0	12.0	10,000
SP9	11/15/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,760
SP9	11/15/2019	5'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,080
SP10	11/12/2019	Surf	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,660
SP10	11/15/2019	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
NH1	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH1	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH2	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH2	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH3	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH3	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH4	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH4	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH5	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH5	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH1	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH1	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH2	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EH2	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NMOCD I				10	50	-	-	-	-	100	600
NMOC	CD Closu	re Crit	eria	10	50	-	-	1,000	-	2,500	20,000

NOTES:

TABLE 1a

CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL (Delineation)

Goodnight Midstream Permian, LLC Wrigley to Piper Pipeline NMOCD Ref. #: 1RP-pending

				SW 840	6 8021B	•	SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
EH3	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH3	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH4	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH4	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH5	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH5	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH1	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH1	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH2	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH2	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH3	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH3	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH4	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH4	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH5	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH5	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH1	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH1	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH2	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH2	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH3	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH3	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH4	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WH4	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH5	11/12/2019	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH5	11/12/2019	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NMOCD I	Relcama	tion Sta	ndard	10	50	-	-	-	-	100	600
NMOC	CD Closu	re Crite	eria	10	50	-	-	1,000	-	2,500	20,000

NOTES:

 $\textbf{Bold} \ \text{text denotes a concentration that exceeds the NMOCD Reclamation Standard and/or Closure Criteria}$

CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL (Confirmation)

				111100	CD Ref. #	. 11t1 -pt	numg					
				SW 840	6 8021B		SW	846 8015M	Ext.		4500 Cl/E300	
Sample ID	Date	Depth	Soil Status	Ponzono	BTEX	GRO	DRO	GRO + DRO	ORO	ТРН	Chlowida	
Sumple 1D	Date	Depth	Son Status	Benzene (mg/kg)	(mg/kg)	C ₆ -C ₁₀	C_{10} - C_{28}	C_6 - C_{28}	C ₂₈ -C ₃₆	C ₆ -C ₃₆	Chloride (mg/kg)	
				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(8 8)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(8 8)	
FS1	12/2/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,390	
FS2	12/2/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,570	
FS3	12/2/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,040	
FS4	12/2/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	896	
FS5	12/3/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,040	
FS6	12/3/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736	
FS7	12/3/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,900	
FS8	12/3/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,620	
FS9	12/3/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	864	
FS10	12/3/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	976	
FS11	12/5/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,080	
FS12	12/5/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,070	
FS13	12/5/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,460	
FS14	12/5/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	13.9	13.9	1,780	
FS15	12/5/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,280	
FS16	12/5/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,840	
FS17	12/6/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
FS18	12/6/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	12.0	12.0	2,680	
FS19	12/6/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128	
FS20	12/6/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,500	
FS21	12/6/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,180	
FS22	12/6/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,160	
FS23	12/6/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,160	
FS24	12/6/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,120	
FS25	12/9/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,600	
FS26	12/9/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,920	
FS27	12/9/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,980	
FS28	12/9/20	4'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,400	
FS29	12/9/20	4'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,920	
FS30	12/9/20	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,120	
FS31	12/9/20	4'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,720	
FS32	12/9/20	4'	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,440	
FS33	12/9/20	4'	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
FS34	12/9/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272	
FS35	12/9/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
FS36	12/9/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	848	
FS37	12/9/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400	
FS38	12/9/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224	
FS39	12/9/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
FS40	12/9/20	4'	In-Situ In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,520	
FS41	12/9/20	4'	In-Situ In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,320	
FS42	12/9/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
FS43	12/9/20	4'	In-Situ In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368	
FS44	12/9/20	4'		<0.050	<0.300		<10.0		<10.0	<30.0	80.0	
FS44 FS45	12/9/20	4'	In-Situ In-Situ	<0.050	<0.300	<10.0 <10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS46	12/9/20	4'	In-Situ In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592	
FS47		4'										
	12/9/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208	
FS48	12/10/20		In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0		
FS49	12/10/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,730	
FS50	12/10/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS51	12/10/20	4'	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608	
FS52	12/10/20	4'	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,400	
FS53	12/10/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0	
FS54	12/10/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320	
FS55	12/10/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128	
FS56	12/10/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224	

CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL (Confirmation)

			Ī		CD Ref. #	1K1 -pc		046 001514	. E4		4500 CL/E20
				SW 840	6 8021B			GRO +			4500 CI/E30
Sample ID	Date	Depth	Soil Status	Benzene	BTEX	GRO	DRO	DRO	ORO	ТРН	Chloride
				(mg/kg)	(mg/kg)	C_6 - C_{10} (mg/kg)	C_{10} - C_{28} (mg/kg)	C ₆ -C ₂₈	C_{28} - C_{36} (mg/kg)	C ₆ -C ₃₆ (mg/kg)	(mg/kg)
FS58	12/10/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	(mg/kg) <20.0	<10.0	<30.0	48.0
FS59	12/10/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
		3'									
FS60	12/10/20		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS61	12/10/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS62A	12/11/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS63	12/11/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS64	12/11/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS65	12/11/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS66	12/11/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS67	12/11/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	13.9	13.9	48.0
FS68	12/11/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS69	12/11/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS70A	12/12/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS71	12/12/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	12.0	12.0	48.0
FS72	12/12/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS73	12/12/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS74B	12/12/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS75A	12/12/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS76	12/12/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS77A	12/12/20	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS78A	12/16/19	4'	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	120
FS79	12/16/19	4'	In-Situ	< 0.00200	< 0.00200	<50.0	< 50.0	< 50.0	<50.0	< 50.0	2,600
FS80	12/17/19	4'	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	573
FS81	12/17/19	4'	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,130
FS82	12/17/19	4'	In-Situ	< 0.00201	< 0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	245
FS83	12/17/19	4'	In-Situ	< 0.00202	< 0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	605
FS84	12/17/19	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	490
FS85	12/17/19	3'	In-Situ	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	525
FS86	12/18/19	3'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	90.2
FS87	12/18/19	3'	In-Situ	<0.00198	< 0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	97.5
FS88	12/18/19	3'	In-Situ	<0.00199	<0.00190	<49.9	<49.9	<49.9	<49.9	<49.9	52.1
FS89B	12/18/19	3'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	9.54
FS90	12/18/19	3'		<0.00200	<0.00200						204
		3'	In-Situ			<50.0	<50.0	<50.0	<50.0	<50.0	
FS91	12/18/19		In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	80.3
FS92	12/18/19	3'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	22.1
FS 93A	12/19/19	3'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	16.0
FS 94A	12/19/19	3'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	118
FS95A	12/19/19	3'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	63.4
FS 96	12/19/19	4'	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	906
FS 97	12/19/19	3'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	112
SFFL1	12/30/19	3'	In-Situ	< 0.0186	< 0.0186	<50.0	<50.0	<50.0	<50.0	<50.0	37.0
SFFL2	12/30/19	3'	In-Situ	< 0.0188	< 0.0188	<49.9	<49.9	<49.9	<49.9	<49.9	576
SFFL3	12/31/19	3'	In-Situ	< 0.0180	< 0.0180	<49.9	<49.9	<49.9	<49.9	<49.9	445
SFFL4	12/31/19	3'	In-Situ	< 0.0197	< 0.0197	<50.0	<50.0	<50.0	<50.0	<50.0	202
SFFL5	1/2/20	4'	In-Situ	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,060
SFFL6	1/2/20	4'	In-Situ	< 0.00202	< 0.00202	65.9	<50.0	65.9	<50.0	65.9	250
SFFS7	1/3/20	4'	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,170
SFFS8	1/3/20	4'	In-Situ	< 0.00202	< 0.00202	56.30	<49.9	56.30	<49.9	56.30	1,930
SFFS9	1/3/20	4'	In-Situ	< 0.00193	< 0.00193	<50.0	<50.0	<50.0	<50.0	<50.0	3,750
SFFS10	1/3/20	4'	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	2,910
SFFS11	1/6/20	4'	In-Situ	< 0.00201	< 0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	3,650
SFFS12	1/6/20	3'	In-Situ	< 0.00193	< 0.00193	<50.0	<50.0	< 50.0	<50.0	<50.0	9.99
SFF13B	1/6/20	3'	In-Situ	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	29.3
SFFS14	1/6/20	3'	In-Situ	< 0.00202	< 0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	<4.99
SFFS15	1/6/20	4'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	4,520
SFFS16	1/6/20	4'	In-Situ	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	2,420
~***	1/6/20	4'	In-Situ	<0.001))	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	22.4

CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL (Confirmation)

					CD Ref. #	: 1KP-p€		V 0.4 C 0.04 53 A			4500 CL/5300
				SW 840	6 8021B			GRO +			4500 Cl/E300
Sample ID	Date	Depth	Soil Status	Benzene	BTEX	GRO	DRO	DRO	ORO	ТРН	Chloride
				(mg/kg)	(mg/kg)	C_6 - C_{10} (mg/kg)	C_{10} - C_{28} (mg/kg)	C ₆ -C ₂₈	C ₂₈ -C ₃₆ (mg/kg)	C ₆ -C ₃₆ (mg/kg)	(mg/kg)
CEEC10	1/9/20	4'	In City	<0.00109	<0.00108			(mg/kg)			4.650
SFFS18	1/8/20	4'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	4,650
SFFS19	1/8/20		In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	4,160
SFFS20	1/9/20	4'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	4,680
SFFS21	1/9/20	4'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	4,240
WW1A	12/3/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW2B	12/3/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW3B	12/3/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW4A	12/3/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WW5A	12/3/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW6	12/3/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW7	12/3/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW8	12/3/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW9	12/3/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW10	12/3/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW11A	12/4/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW12	12/31/19	-	In-Situ	<0.0198	< 0.0198	<50.0	<50.0	<50.0	<50.0	<50.0	12.0
WW13	12/9/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW14	12/9/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW15B	12/9/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	12.0	12.0	272
WWN1D	12/17/19	-	In-Situ	< 0.00200	< 0.00200	<49.8	<49.8	<99.6	<49.8	<49.8	31.6
SFWW1	12/30/19	-	In-Situ	< 0.0198	< 0.0198	<49.9	<49.9	<49.9	<49.9	<49.9	<4.95
SFWW2	12/30/19	-	In-Situ	< 0.0200	< 0.0200	<50.0	<50.0	<50.0	<50.0	<50.0	482
SFWW3	12/31/19	-	Excavated	< 0.0182	< 0.0182	<49.8	<49.8	<49.8	<49.8	<49.8	1,380
SFWW3B	12/31/20	-	In-Situ	-	-	-	-	-	-	-	<4.99
SFWW4	12/31/20	-	In-Situ	< 0.0171	< 0.0171	<50.0	<50.0	<50.0	<50.0	<50.0	103
SFWWB5	1/2/20	-	In-Situ	< 0.00198	< 0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	<4.98
SFWW6	1/2/20	-	In-Situ	< 0.00202	< 0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	< 5.04
SFWW7	1/3/20		In-Situ	< 0.00199	< 0.00199	< 50.0	<50.0	<50.0	<50.0	<50.0	172
SFWW8	1/3/20	-	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	20.0
SFWW9	1/3/20	-	In-Situ	< 0.00199	< 0.00199	< 50.0	<50.0	<50.0	<50.0	< 50.0	36.0
SFWW11	1/6/20	-	In-Situ	< 0.00193	< 0.00193	<50.0	<50.0	<50.0	<50.0	<50.0	<4.95
SFWW12	1/6/20	-	In-Situ	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	< 5.00
SFWW13	1/6/20	-	In-Situ	< 0.00198	< 0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	< 5.05
SFWW14	1/6/20	-	In-Situ	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	18.8
SFWW15	1/6/20	-	In-Situ	< 0.00199	< 0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	6.85
SFWW16	1/6/20	-	In-Situ	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	36.6
SFWW17	1/6/20	_	In-Situ	<0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	6.44
SFWW18C	1/8/20	_	In-Situ	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	<4.99
SFWW19	1/8/20	_	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	<5.00
SFWW22B	1/13/20	_	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	56.7
SFWW23B	1/13/20	_	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	7.92
SFWW24B	1/13/20	_	In-Situ	<0.00202	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	<4.96
SFWW25	1/13/20	_	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	<4.98
SFWW26B	1/13/20		In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	235
NW1A	1/13/20			<0.00201	<0.00201		<10.0	<20.0		<30.0	<16.0
NW1A NW2		-	In-Situ			<10.0			<10.0		
	12/9/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW3A	12/9/20	_	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW4	12/9/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
NW5A	12/9/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
NW6	12/9/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
NW7A	12/9/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
NW8	12/9/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW9A	12/10/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW10	12/10/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW11B	12/10/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW12	12/10/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW13	12/10/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144

CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL (Confirmation)

			T	NMO	CD Ref. #	: 1RP-pe	ending				
				SW 840	6 8021B		SW	846 8015M	Ext.	1	4500 CI/E300
Sample ID	Date	Depth	Soil Status	Benzene	BTEX	GRO	DRO	GRO + DRO	ORO	ТРН	Chloride
·		•		(mg/kg)	(mg/kg)	C ₆ -C ₁₀ (mg/kg)	C_{10} - C_{28} (mg/kg)	C_6 - C_{28} (mg/kg)	C ₂₈ -C ₃₆ (mg/kg)	C ₆ -C ₃₆ (mg/kg)	(mg/kg)
NW14	12/10/20	_	In-Situ	< 0.050	< 0.300	<10.0	<10.0	(mg/kg) <20.0	<10.0	<30.0	304
NW15	12/11/20	-	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
NW16A	12/11/20	_	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW17	12/11/20	_	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW18	12/11/20	_	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW19	12/11/20	_	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW20A	12/11/20	_	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW21	12/11/20	_	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW22	12/11/20	_	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
NW23A	12/12/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW24	12/12/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW25	12/12/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW26	12/12/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW27	12/12/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW28A	12/12/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW29	12/11/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW30	12/16/19	-	In-Situ	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	125
NW30F	12/17/19	-	In-Situ	< 0.00201	< 0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	7.43
NW31A	12/17/19	-	In-Situ	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	7.39
NW32	12/17/19	-	In-Situ	< 0.00201	< 0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	15.7
NW33	12/17/19	-	In-Situ	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	20.1
NW34	12/17/19	-	In-Situ	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	22.0
NW35	12/18/19	-	In-Situ	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	67.6
NW36	12/18/19	-	In-Situ	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	77.6
NW37A	12/18/19	-	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	84.4
NW38	12/18/19	_	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	55.2
NW39	12/18/19	-	In-Situ	< 0.00201	< 0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	5.34
NW 40A	12/19/19	-	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	23.3
NW 41	12/19/19	-	In-Situ	< 0.00201	< 0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	75.9
NW42A	2/3/20	-	In-Situ	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	8.15
NW43B	2/3/20	-	In-Situ	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	7.61
NW44B	2/3/20	-	Excavated	<0.00201	< 0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	631
NW44C	2/6/20	-	In-Situ	-	-	-	-	-	-	-	< 5.01
NW45A	2/3/20	-	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	50.6
SW1A	12/4/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW2B	12/4/20	_	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW3A	12/4/20	_	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW4	12/4/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW5	12/5/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW6B	12/5/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW7C	12/9/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW8	12/9/20	-	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW9	12/9/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW10	12/10/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW11A	12/10/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW12	12/10/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW13	12/10/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW14A	12/10/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW15	12/11/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW16	12/11/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW17	12/11/20	_	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW18	12/11/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW19A	12/11/20	_	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW20	12/11/20	_	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW21	12/11/20	_	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW22	12/11/20	_	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW23	12/11/20	_	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
5 11 23	12/12/20		าน-อาเน	\U.UJU	\0.500	\10.U	\10.U	\2U.U	\10.U	√30.0	\1U.U

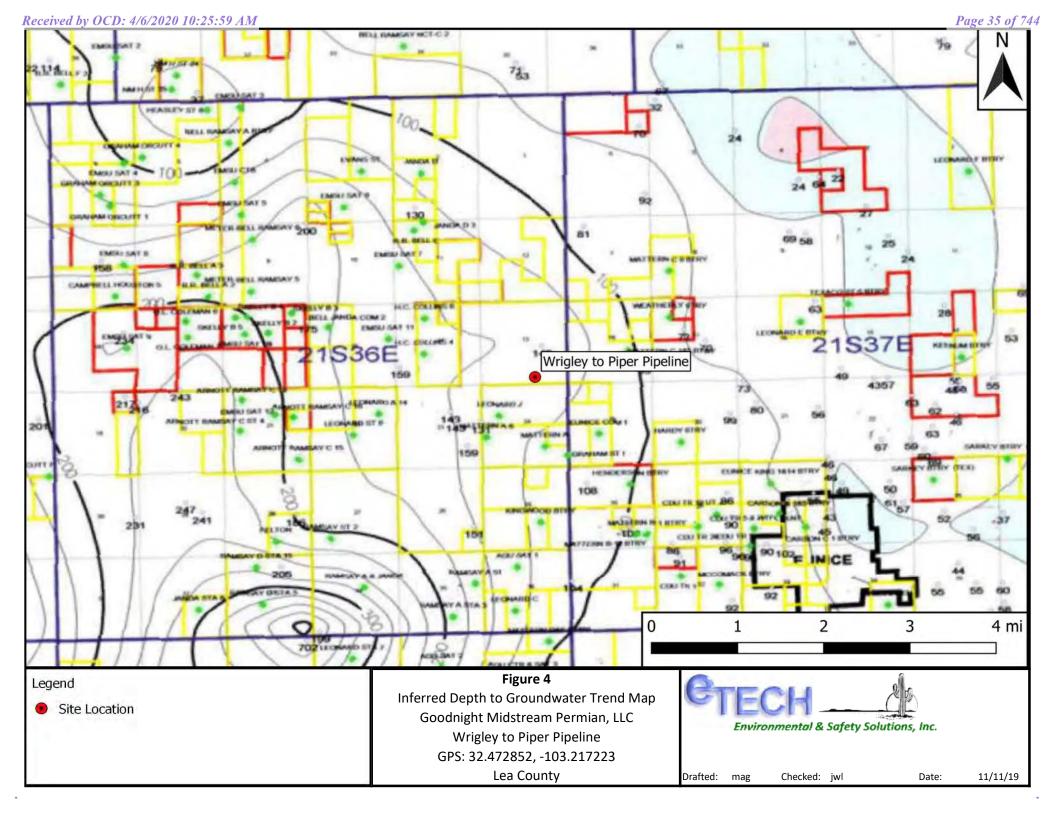
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL (Confirmation)

			I		CP021B	. 1K1 -pc		046 001534	T E4		4500 CI/E200
				5W 840	6 8021B			GRO +			4500 Cl/E300
Sample ID	Date	Depth	Soil Status	Benzene	BTEX	GRO	DRO	DRO	ORO	ТРН	Chloride
				(mg/kg)	(mg/kg)	C_6 - C_{10} (mg/kg)	C_{10} - C_{28} (mg/kg)	C ₆ -C ₂₈	C_{28} - C_{36} (mg/kg)	C_6 - C_{36} (mg/kg)	(mg/kg)
						(IIIg/Kg)	(IIIg/Kg)	(mg/kg)	(IIIg/Kg)	(IIIg/Kg)	
SW24	12/12/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW25	12/12/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	13.9	13.9	32.0
SW26A	12/12/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW27	12/12/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW28	12/12/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW29A	12/12/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	12.0	12.0	16.0
SW31	12/17/19	-	In-Situ	< 0.00199	< 0.00199	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 5.02
SW32	12/17/19	-	In-Situ	< 0.00198	< 0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	85.1
SW33	12/17/19	-	In-Situ	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	27.6
SW34	12/17/19	-	In-Situ	< 0.00198	< 0.00198	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	151
SW35	12/18/19	-	In-Situ	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	248
SW36A	12/18/19	-	In-Situ	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	63.0
SW37	12/18/19	-	In-Situ	< 0.00202	< 0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	9.15
SW38B	12/18/19	_	In-Situ	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	15.1
SW39	12/18/19	_	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	9.94
SW 40	12/19/19	_	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	247
SW41A	12/19/19		In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	247
SW 42			In-Situ In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9 <49.9	<49.9	<49.9 <49.9	37.9
	12/19/19					+					
EW1B	12/4/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW2A	12/4/20	-	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
EW3A	12/4/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW4	12/4/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW5A	12/4/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
EW6	12/4/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
EW7	12/4/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW8	12/4/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW9	12/5/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW10A	12/5/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW11C	12/5/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW12	12/5/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW13	12/4/20	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW14	12/4/20	-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW15	12/30/20	-	Excavated	< 0.0195	< 0.0195	<49.9	<49.9	<49.9	<49.9	<49.9	823
EW15B	1/22/20	-	In-Situ	-	-	-	-	-	-	-	<5.0
EWN1	12/17/19	_	In-Situ	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	8.93
EWN2	2/3/20	-	In-Situ	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	22.4
SFEW1	12/30/20	-	In-Situ	< 0.0196	< 0.0196	<50.0	<50.0	<50.0	<50.0	<50.0	6.16
SFEW2	12/30/20	_	In-Situ	< 0.0174	< 0.0174	<49.8	<49.8	<49.8	<49.8	<49.8	<4.97
SFEW3	12/31/20	-	In-Situ	<0.0171	< 0.0171	<49.9	<49.9	<49.9	<49.9	<49.9	193
SFE4	12/31/20	_	In-Situ	<0.0195	< 0.0195	<50.0	<50.0	<50.0	<50.0	<50.0	18.1
SFEWB5	1/2/20	_	In-Situ	<0.00200	<0.00200	65.8	<49.9	65.8	<49.9	65.8	<5.03
SFEW6	1/2/20		In-Situ	<0.00200	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	<4.96
SFEW7	1/3/20	-	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	42.5
				<0.00244	<0.00244	+					
SFEW8A	1/3/20	-	In-Situ			<49.9	<49.9	<49.9	<49.9	<49.9	10.1
SFEW10	1/3/20	_	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	<5.00
SFEW10	1/3/20	-	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	37.3
SFEW11A	1/6/20	-	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	6.46
SFEW12	1/6/20	-	Excavated	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	3,190
SFEW12B	1/22/20	-	In-Situ	-	-	-	-	-	-	-	<5.03
SFEW13C	1/6/20	-	In-Situ	< 0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	10.9
SFEW14	1/6/20	-	Excavated	< 0.00201	< 0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	3,210
SFEW14B	1/22/20	-	In-Situ	-	-	-	-	-	-	-	119
SFEW15B	1/6/20	-	In-Situ	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	< 5.01
SFEW16	1/6/20	-	In-Situ	< 0.00193	< 0.00193	<50.0	<50.0	<50.0	<50.0	<50.0	12.1
SFEW17	1/6/20	-	Excavated	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	2,990
SFEW17B	1/22/20	-	In-Situ	-	-	-	-	-	-	-	<5.0
SFEW18	1/18/20	-	In-Situ	-	-	-	-	-	-	-	<4.95

CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL (Confirmation)

				SW 846	5 8021B		SW	846 8015M	Ext.		4500 Cl/E300
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SFEW19	1/8/20	-	In-Situ	< 0.00202	< 0.00202	< 50.0	<50.0	< 50.0	<50.0	< 50.0	195
SFEW20B	1/8/20	-	In-Situ	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	< 5.03
SFEW21A	1/9/20	-	In-Situ	< 0.00202	< 0.00202	< 50.0	<50.0	< 50.0	<50.0	< 50.0	<4.98
SFEW22	1/9/20	-	In-Situ	< 0.00201	< 0.00201	< 50.0	< 50.0	< 50.0	<50.0	< 50.0	68.4
NMOCD Relcamation Standard			10	50	-	-	-	-	100	600	
NMOC	NMOCD Closure Criteria			10	50	-	-	1,000	-	2,500	20000

Appendix A Depth to Groundwater Information





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													
		Sub-		Q	Q	Q								Wa	ater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDeptl	hWellDepth	Water Col	umn
<u>CP 00446 POD1</u>		CP	LE	1	4	4	13	21S	36E	667871	3594424*	379	185	148	37
<u>CP 00446 POD2</u>		CP	LE	1	4	4	13	21S	36E	667871	3594424*	379	200	151	49
<u>CP 01245 POD1</u>		CP	LE			4	18	21S	37E	668676	3594411	1152	220		
<u>CP 00472 POD1</u>		CP	LE	4	4	2	23	21S	36E	666480	3593391*	1359	200	140	60
<u>CP 00472 POD2</u>		CP	LE	4	4	2	23	21S	36E	666480	3593391*	1359	200	140	60
<u>CP 00664</u>		CP	LE			2	23	21S	36E	666179	3593687*	1467	185	150	35
<u>CP 00882</u>		CP	LE			2	23	21S	36E	666179	3593687*	1467	195	142	53
<u>CP 00472 POD5</u>		CP	LE	2	3	2	23	21S	36E	666077	3593585*	1601	200	143	57

Average Depth to Water:

144 feet

Minimum Depth:

140 feet

Maximum Depth:

151 feet

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 667534.4

Northing (Y): 3594249.4

Radius: 1610

*UTM location was derived from PLSS - see Help

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

3/19/20 6:57 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Wrigley to Piper Pipeline GPS: 32.472852, -103.217223 Lea County Drafted: mag Checked: jwl Date:

11/11/19



National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	•	United States	▼	GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322831103125601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322831103125601 21S.36E.13.41223

Available data for this site Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

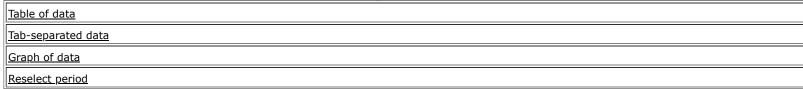
Latitude 32°28'31", Longitude 103°12'56" NAD27

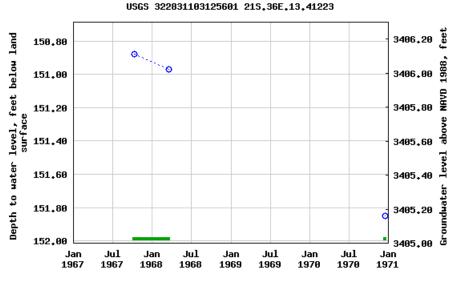
Land-surface elevation 3,557 feet above NAVD88

The depth of the well is 200 feet below land surface.

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

Output formats





- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u> Feedback on this web site

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Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2019-11-11 10:23:42 EST

0.5 0.45 nadww02



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National Water Information System: Web Interface

USGS Water Resources

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

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

322831103125602

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322831103125602 21S.36E.13.412232

Available data for this site Groundwater: Field measurements Lea County, New Mexico Hydrologic Unit Code 13070007

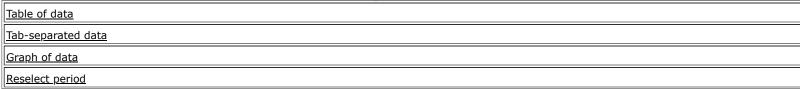
Latitude 32°28'31", Longitude 103°12'56" NAD27

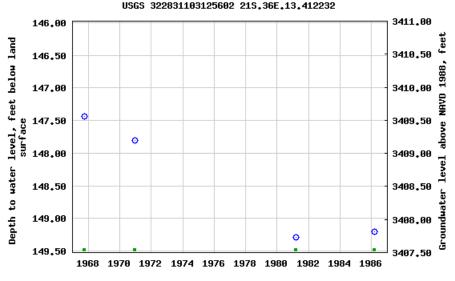
Land-surface elevation 3,557 feet above NAVD88

The depth of the well is 185 feet below land surface.

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

Output formats





Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

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0.49 0.44 nadww02



National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
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Search Results -- 1 sites found

Agency code = usgs site_no list =

322741103133901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322741103133901 21S.36E.23.244424

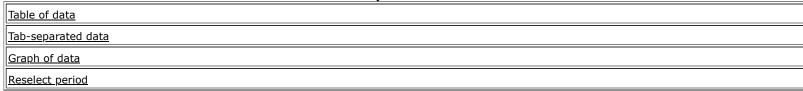
Available data for this site Groundwater: Field measurements Lea County, New Mexico Hydrologic Unit Code 13070007

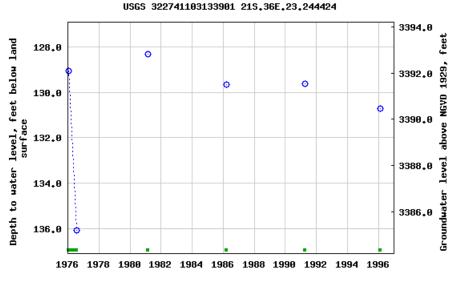
Latitude 32°27'54", Longitude 103°13'40" NAD27 Land-surface elevation 3,521.20 feet above NGVD29

The depth of the well is 200 feet below land surface.

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

Output formats





- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

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Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2019-11-11 10:23:41 EST

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Appendix B Field Data and Soil Profile Logs

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ILUII	
Environmental .	& Safety Solutions, Inc

Environme	ntal & Safety Solutions, In	c.	Initi	al Release Asse	ssment Form		
Project: Project Num	Wrighly to		Latitude:	Clean Up Level:		12.19	
*wH-2 *wH-2 *wH-4	2 8 8 5 6 d S C	- PVH-2 5PH-2 .EH-22 .EH-22	•	Site Diagram NH3 5 \psi 3	SPL SPL	sp!	1 SE-H3 .
Notes: ~Length: 3-4 Repre Necessary Sample at	~V esentative Pictur y Samples Field S nd Field Screen	-\.	ole Log?	g sample locations?	~Depth:	Yes	No



	. 0	1000
11	. 17 .	19
11	. 12	11
	11	11.12.

		Date:
Project: Wigley to piper	4	
Project Number:	Latitude:	Longitude:

Sample ID	PID/Odor		Chloride Conc.	GPS
P-18 surface		2472	5,314	
SP-1611	1112-22	2472	5,314	
SP-1@2'		Auger retus	sal	
P-20 surface		2422	4909	
SP-2011		2412		
5P-2e2'		2912	4904	
p-80 surface		2492	8776	
51-8el		2492	8716	
p-8e2'		2492	5316	
p-883		Auger refu		
10-9 @ Surface		1492	6796	
0-901		2492	w194	
p-9e2		2492	4,260	
19-93		Auger res		
h- 10 @ Surface		2492	14004	
0-10 e 1'		2492	8776	
0-1007'		2492	6,796	
p-10e3'		Auger refus		
p-10e3' P-7esurface		2492	104910	
P-701'		2492	1297	
P-702'		2492	7,392	
P-10C SUFFACE		2492	10,496	
p-best		2492	W2.LeO	
P-402'		2/192	4,176	
P-Sesurface		2492 2492	17296	
P-5 @ 11		2492	5768	
D-5 C21		Auger refu		
D-4 B SURFACE		2492	7392	
p-40 Surface		312	13-12	
p-402		312		
P-30 Surface		2492	4524	
P-301		128	7007	
7-302		(1000) 180		
7-,7				

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



Project: Wigley to piper		Date:	
Project Number:	Latitude:	Longitude:	

Sample ID	PID/Odor Chloride Conc.	
WH-ICS	128	GPS
WH-1e1	128	
NH-les	128	
NH-101	128	
WH-Zes	128	
wH-Zel	512	
EH-S es	156	
EH-Sel	128	
EH-30S	128	
EH-301	154	
EH-4es	156	
FH-401	120	
-t1-20S	128	
+1:201	128	
H-1es	128	
H-101	128	
Wantanin KIH-2 05	100	
NH-205	128	
WH-3@5	128	
NH-3 @1	128	
NH-4@5	128	
WA-401	150	
NH-5@5	128	
wH-5 el	128	
SH-1 e5	128	
SH-1 e1	128	
SH-2 es	128	
H-2 el	128	
H-3@5	128	
5H-3e1	128	
H-4 @5	128 128 128 128	
H-4 e1	128	
H-401 H-505	128	
5H-5 e1	128	
JH-3es	128	
VV	128	
VH-3e1	1128	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

5Idewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center of Comp Areas

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

Stockpile = Stockpile #1



+ 12/18/19

Date:

11-13-19

Project: Wrigley to Piper Pipeline

Project Number: 11488 Latitude: 32.472852 Longitude: -103.217223

Sample ID	PID/Odor	Chloride	Conc.	GDS
Sample ID NH-4@S NH-4@S NH-5@S NH-5@N		156 128 156 156	201101	GPS
NH-4@S		128		
NH-5@S		156		
NH-5el		151		
		- 12/18/	10	
NW 35		580	7	
5W35		344	8:00	
SW 35 FS 86		304	8105	
NW36		120	8:10	
			9:00	
SW 36 ES 87		1480 528	9:05	
5W 36a		528	9:10	
NW 37		580	9:30	
SW 37		1288	10130	
		148	10:35	
FS 94		388	10:40	
NW 37 a NW 38 SW 38		432 338	11:00	
NW 38		388	11:50	
5U 38		1384	11:55	
FS 89		696	12:00	
SW 38 a		2098	13-12:30	
FS 89a		884	12:35	
\$ 5W386		172	13:44	
F5 89 b		148	13:,45	
FS 90		480	13:50	
MM 39		204	19:45	
5W 39		196	14150	
CS91		508	19:55	
F592		\$ 384		
		7 701	15:00	
Sample Doint - CD #4 @ ## .				

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



Date:	11-15-19
	The state of the s

Project:	Wrigley to Piper Pipeline			Date:	11-13-19
Project Number:	11488	 Latitude:	32.472852	Longitude:	-103.217223

Sample ID	PID/Odor	Chloride Conc.	GPS
SP1031		236	
SP1031 SP2031 SP5031		236 272 312 2436 2436	
SP5 P 3'		312	
SP6@ 31		20,30	
SDIAN U'		7471	
SP665' SP163' SP863'		1184	
SP 70 3'			
SPRE3'		116	
SP80 4'		1868	
000000		7032	
37 86 4' 3798 3' 3798 4' 37985'		1032 2436 2436 2130 2436	
OFTE 4'		2436	
SP1003' SP1004'		2120	
5P10@3'		2436	
SP1064'		//6	
			
-			
(A.			
		,	

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



+ 12/18/19

Date:

11-13-19

Project: Wrigley to Piper Pipeline
Project Number: 11488 Latitude: 32.472852 Longitude: -103.217223

Sample ID	PID/Odor	Chloride Co	nc.	GPS
NH-4@S NH-4@S NH-5@S		156		dra
VH-4@S		128		
NH-5@S		156		
NH-50S NH-501		156 128 150 156		
		- 12/18/10	3	
NW 35		580	8:00	
5W 35 FS 86		344	8105	
F586		304	8:10	
NW36		120	9:00	
SIN 36		1480	9:05	
ES 87		528	9:10	
5W 36a		580	9:30	
NW 37		1288	10130	
SW 37		148	10:35	
FS 94		388	10:40	
FS 94 NW 37a		432	1):00	
NW 38		388	11:50	
561 38		1384	11:55	
FS 89 SW 38a		696	12100	
SL) 38a		2098	13-12:30	
FS 89a		884	12:35	
\$ 5W386		172	13:44	
ES 896		148	13:45	
FS 896		480	(3:50	
NW 39		204		
5W 39		196	19:45	
ES 91		508	19150	
F592		4 384	17:55	
F / 1/.		4 287	15:00	
***************************************	2-1			
			I	

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



Date:

12-2-19

Project:

Wrigley to Piper Pipeline

Project Number: 114

11488 Latitude:

32.472852

Longitude:

-103.217223

Sample ID	PID/Odor	Chloride Conc.	GPS
NW1	Slight	<i>L</i> 2584	
NW1 NW1A	NO	124	
WW2	NO	<i>L</i> 2584	
WWZA	NO	2124	
WWA	NO	<i><2584</i>	
WWW2A	Yes	22584	
WW38 WW38	NO	2258 Ý 124	
SVI	Slight	42584	
SW2A	Slight	7124	
EW1	Slight	1148	
EW2A	NO	1072	
EWIA EWIB FSI	NO	7124	
FS1	NO	1232	
FS 3	NO	1316	
FS3	NO	1072	
FS4	NO	730	
		9	

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



Date:

12-3-19

Project:

Wrigley to Piper Pipeline

Project Number:

11488 Latitude:

32.472852

Longitude:

-103.217223

Sample ID	PID/Odor	Chloride Conc.	GPS
WW3	NO	4 2 584	
EW2A FS5	Yes	4 8 584 43584 1956	
FS5	NO	1956	
EWB	Yes	372	
WW3A	NO	1408	
	NO	5110	
WW4	NO Slight	790	
EW3	Sliaht	894	
WW4A	NO	544	
EW 3A	NO	312	
WW5	NO	ω5 λ	
EW4	NO	312 652 400	
FSle	NO	12104	
WW5A	NO	400	
FS7	NO	1532	
EW5	NO	712	
WWoo	NO	140	
EW5A	NO	496	
WW7	NO	140	
EWEG	NO	600	
FS8	NO	1348	
WW8 F39	NO	600 1348 353	
F39	NO	964	
EW7	NO	352	
FS10	NO	1032	
WW9	NO	.312	
EWT	NO	312	
0			

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



Date:

12-4-19

Project:

Wrigley to Piper Pipeline

Project Number: 11488

11488 Latitude:

32.472852

Longitude:

-103.217223

Sample ID	PID/Odor	Chloride Conc.	GPS
MMIO	No	318	
EWO	NO	350	
FSII	NO	1744	
FS 12	NO	1348	
WWII	NO	2120	
EW 150	NO	715	
WWIIA	NO	312	
EWIOA	NO	600	
FS13	NO	1744	
WW12	NO	>2436	
EWIL	NO	>2436	
EWIIA FS14	NO	2436	
F\$14	NO	1744	
EWIIB	NO	1932	
SWA	NO	>2436	
FWIIC	NO	400	
SWAA SWAB	NO	2120	*
SWAB	NO	2120 544	
EW12	NO	280	
FS 15	NO	1420	
3W3	NO	844	
-W13	NO	244	
SW3A	No	444	
			1

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



Date:

Project:

Wrigley to Piper Pipeline

Project Number:

11488 Latitude: 32.472852

Longitude: -103.217223

Sample ID	PID/Odor	Chloride Conc.	GPS
EW 14	NO	ala	
EW 14 3W4	PID/Odor	212 444	
SW5	No	400	
SWO	NO	>2472	
FS 11a	NO	1872	
SWGA SWGB	NO	ブルイコス	
3W 6B	NO	280	
SW7	NO	>2472 1872 72472 380 2148	
	~		
			<u> </u>
	III		

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



Project:

Wrigley to Piper Pipeline

Project Number:

11488 Latitude:

32.472852

Longitude:

-103.217223

Sample ID	PID/Odor		conc.	GPS
FW 136 DW76		1232	8:25	
SW14- 5W8		12P	8:28	
WW 21 WW 13		134	8:30 8:33	
MM 22 MM 19		208	8:33	
FS +6-17		134 208 336	1:25	
FS+7-18		7540 1th		
FS-17-18 FS-18-19		512	9:35	
-SW 18 SW9		268	7:40	
SW13c SW7c		268	9:43	
WW 15		7 2416	11315	
WW JE 15a		804	1210	
NW 2 WW 156		464	12:15	
WW 156		376	12:50	
FS 20		1816	13:10	
F\$ 21		1580	13:13	
FS 22		3552 Inh	13:16	
F\$ 23		2328 144	13:20	
rs 21		1020	13:25	
FS 25		1816	13:30	
W 3		1276	13:50	
NW3a		300 1+1	19:30	
	100			
				u de la companya de l
		6		
		1		
26 6 -25 70				

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



Date

12/9/19

Project:

Wrigley to Piper Pipeline

Project Number:

11488 Latitude:

32.472852

Longitude:

-103.217223

Sample ID	PID/Odor	Chloride	e Conc.	GPS
pw4		512	07:45	
NWS		512 736 2x 8101	08:40	
NW5a		208	09:20	
F5 25		804	09:25	
FS 26		1948 200	9:30	
FSZ7		872 2x	9:35	
F528		1816	9:40	
FS 29		1948	9:45	
FS 30		2092 2328 1	+4 9150	
F5 31		2092	9155	
F532		2092	[0:00	
NWC		414	10:25	
FS33		Colle	10:30	
FS34		944	10:40	
FS35		616	10:50	
FS30		1188	11:30	
F337		512	11:35	
TS 38		564	11:40	
\$39		416	11 3 45	
340		3952 1+4	11:50	
NWT		736	12104	
F541			12:25	
F542		804	12:30	
6843		544	12:35	
NWTO		236	13:30	
Nw8		464	13:30	
CS 94		464 564 132	14:00	
£348		132	14:05	
C 5 4 6		728	14:15	
F547		464	14:50	
		v.	i i	

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



Date;

12/10/19

Project:

Wrigley to Piper Pipeline

Project Number:

11488 Latitude:

32.472852

Longitude:

-103.217223

Sample ID	PID/Odor			GPS
F544		512	08:36	
F549		1948	08:35	
F550		376 872	08:40	
F551		872	08:45	
NWG		616	08:50	
NWga		464	09:30	
F3 52		2416	10:00	
F5 53		464	10:05	
F3 54		564	10:10	
FS 55		300	10:15	
FJ 56		464	10:20	
CS 57		469	11705	
FS 58		416	11:10	
NW 10		376	11:15	
SWID		416 2, SLND	11:20	
SWII		804	11:50	
NWIL		616	12:10	
F559		416	12:15	
Swlla		300	12:20	
NWIIa		300	12:35	
NWILL		512	12:45	
5W12		336	13:00	
HW12		264	13:20	
F560		564	13:25	
5w13		512 300	13:55	
NW13		300 512	14:18	
FS61		564	14:20	
SW14		12.89	14:55	
NWIY		580	15:10	
F362 SW14a		1480	15:16	
SWIYA		704	15;24	
			111-	1
2				

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



Date:

12/11/19

Project:

Wrigley to Piper Pipeline

Project Number:

11488

Latitude:

32.472852

Longitude:

-103.217223

Sample ID	PID/Odor	Chloride C	onc.	GPS
-362a		528	07130	5.5A.7.(s)
NW 15		432	08:00	
SW 15 F5 63		388	04:05	
F563		344	28:10	
NW 16		756	09:35	
SW 16 ES 64		480	01:50	
1564		432	08:55	
NW169		388 25W/8	9:25	
MW 17		528	9:45	
SW17		344	10:05	
E565		268	10:10	
NW 18		304 344	10:45	
SW 18		304	10:50	
FS 66		432	10755	
NW 19		430	11:15	
SWIG		1200	11:40	
5W19 PS 67		1200	11:45	
5W19a		236 388 1389	11:54	
NW 20		388 1384	12 12:55	
5W20		381	12:40	
F5 68		304 528	+2 13:00	
Nw 20 a		528	13:15	
NUZI		432 2 2 mps	17:00	
5W21		480	14:05	
CS 69		386	1400	
NWTT		344 Estrips	14:50	
4W22		344	15105	
£570		696		
£570		496	15:10	

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



Date:

12/12/19

Project:

Wrigley to Piper Pipeline

Project Number:

11488 Latitude:

32.472852

Longitude:

-103.217223

Sample ID	PID/Odor	Chlorid	e Conc.	GPS
5 70a		344	7:30	
VW 23		756	7:58	
SWZ3		304	8:15	
FS 71		344	४:४०	
NWZ3		376	8128	
NW 24		300	8:50	
CW 24		464 376	9:20	
SW24 F5 78 FS 77		376	9125	
NWZ5		336	1:50	
1W25		208	9:55	
F572 FS 73		517	10100	
NW26		376	10:30	
3 W 26		2092	10135	
FS 74		1020	10:35	
5 W 26 a		268	11:25	
F5 74 a		268	11:30	
FS 74 & FS 746		268	12:00	
7W14		512 7.08	12:43	
NW 27		512	12:50	
E575		1020	12156	
1575a		268	13:10 -1-40	
NW 28		268	13:30	
SW 28		376	14:00	
FS 76 NW 28 a		564 376	Juip	
NW 28 a		376	14:15	
NWZ9	- 4	416	14:30	
SWZ9		872	15:00	
FS 77		616	15.05	
SW 29a FS 77 a		376	15:30	
FS 77 a		336	15135	
			# # # # # # # # # # # # # # # # # # #	

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



12/17/19

Date:

12/16/19

Project: Wrigley to Piper Pipeline
Project Number: 11488 Latitude: 32.472852 Longitude: -103.217223

Sample ID	PID/Odor	Chloride Conc.		GPS
FS NW 30		464	8120	
SW 30		2916	8:25	
FS 78		1188	8:30	
SW 30a		2092	9100	
FS 78 a		616 744	9:365	
SW 306		1816	9:30	
SW 306 SW 30C		>2416 3012 (Ligh)	9:55	
SW 30 1		> 2416 2540 (high)	12:50	
ES 79		2416 2540 74	12:55	
SW 30e		2542 1100	13:30	
WWN 1		1580	13:35	
SW30 F NWN 1a		1276	14130	
SW 30 C		204	14:45	
WW N 1 b		960	15:05	
WWNIC.		888	15:40	
WWN22 12	1/2/1	9 -	110	12/17/19
WWN 2d	1	388	8100	14/1/
FS 80		888	8130	
EWN 1 5W31		480	9:10	
EWN 1		432	10:05	
EWNZ NW 31		1116	11:10	
NW 31a		480	10:05	
FS 81		1288 >4'	11:41	
FS 82		480	11:45	
NW 32		204	12:10	
SW 32		344	13:00	
FS 83		1116 74'	13:05	
SV 33		71.8	13:32	
NW 33		768 578	14:10	
£5 84		888	19:15	
NW 34		268	14:45	
5W 34 FS 85	11	580	15:15	
FS 95		756 < 41 dwyf9	15:20	
1.2.4.		1. 11.	10720	

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



Date:

12/19/19

Project:

Wrigley to Piper Pipeline

Project Number:

11488 Latitude:

32.472852

Longitude:

-103.217223

Win 4 Bample ID	PID/Odor	Chloride Conc.		GPS
Nu)40		916	P:05	71.7
SWYD		384	8:10	
F593		9/6	8:15	
F 594		848	08:20	
NWYOA		<124	9:10	
FS 93A		< 124	9115	
F5 94A		464	9:20	
# NW41		348	10:10	
5641		1744	11:15	
F595		780	10:20	ac."
5441A		348	11:05	
FS 95 A		348	11:10	
NW42		848	12:30	
5W42		280	12:35	
FS 96		720 74'	12012	40 Too close to pipe.
NW42A		916	13:00	
NW43		Ho28 1064	14:45	
3 W 43		1799	14:50	
FS 97		664	14:55	
EWN2		1628	15:00	
				14

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



		Date: 1730 - 19	
Project: Wrigley to	iner	10 00 17	
Project Number:	latitude.	Longitudo	

Sample ID	PID/Odor	C	hloride Conc.	GPS
5W#1		217.	9:0000	
5W#2		312	9:00am 9:20am	
EW#1		1031	9:49	
シャナカ		636 528 528	10:51	
FL#1		570	1:39 pm	
1		288	1.39 pm	
THE STATE OF THE S				
W				

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



	1		. ^	
Date:	12-3	-	19	

	Ô	Date: 12-31-19	
Project: Wrigley	to liper		
Project Number:	Latitude	Longitudo:	

, Sample ID	PID/Odor	Chlo	oride Conc.	GPS
T(#2		7510	9:50am	
East SWHI		170	9:51	
Westsw#1		236	9:55	
FL#3		1.700	11:08	
East SW#2		204	11:11	
West SW#2		528	11:12	
1144		580	17:05	
East < W#3		42592	12:07	
West-SW#3		42591	12:09	
Eastsw#4		388	17:24	
WSW#4		636	12:26	
CC VIVIALE		10011	025	1 2 20
SF WW#5		1984	9:30 am	1-2-20
91 13/10		2240	9:35 am	
5F ES#5 6F EWB#5		Z2592	1. 1000	
SF EWB#5		234	10:00am	
			10:30am	
SF WW#6 SF FS#6		120	1:20pm	
SF FS#6 SF EW#6		2000 480	1:30pm	
OF EWHU		236	1:40pm	
			N. J	
			42.5	

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



Project:	Wrigley to Piper Pipeline
	The state of the s

to Piper Pipeline

Sample ID	PID/Odor	Chloride Co	no 1	7.20000000
sf ww7		21111	iic.	GPS
SFEW7)49 1486		
SFEW7 SFFS7		1101		
SFEWS		730		
SF WW8		16304 2012	7:30	
SF F58		312	9:35	
ST = 1.10 h		2008 741	9:40	
SFEWAA		124	11:00	
SELLIO		1228	12:30	
SF WW9 SFFS 9		248	12:35	
57759		>2504 399 3012	74' 12:40	
DEEWGG		<124	13:15	
STEWIO		280	14:45	
SFEW 10 SF WW 10 SF FS 10		280 1872	14:56	
sf es 10		2324 74'	14:55	
		236.1	19:73	
				

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



Date:

1/6/20

Project:

Wrigley to Piper Pipeline

Project Number:

11488 Latitude:

32.472852

Longitude:

-103.217223

Sample ID	PID/Odor	Chlori	de Conc.	GPS
SFWW 11		4120		urs
SF EW 11		>2592	7:40	
SF FUS II		1384	9:10	
SE ELI IIa		4 120	9:53	
5FWW12 SF FS 12		148	11:33	
SF FS 12		72592	11:31	
SFEW 12		344	11:36	
SF WW 13		420	12:54	
SF EU 13		>2592	17:57	
SFFS 13 & 3'		72592	12:59	
SFEWB136		72592	13:45	
SFFS 138 @ 4'		388	13:47	
SF EW 13 & 3' SF FS 13 & 3' SF EW 18 13 b SFFS 13 b @ 4' SF EW 13 C		388 2120	14:14	
			17-74	
	7			

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



Date:

1/2/20

Project:

Wrigley to Piper Pipeline

Project Number: 11488

Latitude: 32.472852

Longitude:

-103.217223

Sample ID	PID/Odor	Chloride Co	onc.	GPS
SFWW 14		4120	08134	<u> </u>
SF EW 14		4120 304	08:35	
SF FS 14		72592 >4'	08:44	
SFWn 15		268	09:55	,
SPEW 15		636	09:55	
5F FS 15		72592 74'	99:58	
SF & W 156		2120	10:30	
SFEW 16		204	(1:46	
SFEW 16		4120	11:48	
3FFS +7/6		72592 74'	11:49	
SFWW 17		204	13:37	
SFEW 17		204	13:39	
SF FL 17		2592 74'	13:41	
			12.11	

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

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1-1	1-1	2	l.c
	18.1		4
Core recess	HILL STATE OF THE OW	ofaty Solutio	-

Project: Wrigher to Piper	(4	Date: 1-7-20
Toject Number:	Latitude:	Longitude:
C-mark 1 and		

Sample ID	PID/Odor		Longitude:	
WW # 4	FID/Odor	Ch	loride Conc.	GPS
EW#7		4120	8:34am	GP3
FL#5		304	8:35	
WW#5		>2592	8:44	
EW# 7		268	9:55 9:55	
FL# 6		636	9:55	
EW#76		>2592	9:58	
NW#6			10:30	
EW#8		204	11:46	
=1#7		4170	11:48	
THINW		>2592	11:49	
ENI#9.		204	1:37 pm	
FL#8		204	1:39	
		2592	1:41	
		<i>y</i>		
TO THE RESERVE OF THE				
	The second			
		(ran)		

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



Date:	1.08.20
Date.	100.20

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	. 01		

Wrigley to Piper Pipeline

Project Number: 11488 Latitude:

32.472852

Longitude:

-103.217223

Sample ID	PID/Odor	Chloride	e Conc.	GPS
EWHIS		1111	11:13	
WW# IS		2,592 2,592	11:13	
Floor#18		2,592	(1:19	
EW# 18b		148	12:10	
WW# 186		1948	12:18	
WW# 18C		120	12:44	
EW# 19		7360	2:29	
WWH 19		236 120	2:31	
Floor #19		2,592	7:31	
		2/- /-	7.3.	
				<u> </u>
*				
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×				

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



Date:

1/9/20

Project:

Wrigley to Piper Pipeline

Project Number:

11488 Latitude:

32.472852

Longitude:

-103.217223

Sample ID	PID/Odor	Chloride Conc.	Ty I	GPS
SS SF WW 20		R2504 4176	8:55	
5f EW 20		72504 3272	9:00	
SF 65 20		72504 4176 74		
SFWWZUA.		Too Cose to pipe to dia		
SFEW ZUBA		7254 848	9:50	
5 F WW 20 - N		2324	9:25	
SF WW 20-25		72504 4176	7:30	
SFEW ZO'B		508	10:25	
SFEW 21		55 608	12:20	
55FS 21	10	2768	12:25	
SFWW. 722 21		4176 thi	12131	
SFEW 22 SFEW 21A		508	12:45	
SFEW ZIA		348	13:00	
5FWW#23		1948 + 1036	7:00	
SF WW#23		2592	7:30	
SF WW#23 SF WW#24B		888	8:00	
SF WW#24B		148	8:00	
SF WW#85		148	9:50	
SF WW#26		1036	11:00	8
SF WW#26B		438	11:30	
SF WW#23B		636 438 148	12:00	
· ·				
			2.2	
	4			

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

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GTECH	عالم
- IECH	
Environmental & 3	Safety Solutions, Inc.

10		Date: /-/3-20	
Project: Wrigley Pipe	~		
Project Number:	Latitude:	Longitude	

Sample ID	PID/Odor	Chloride Conc.	GPS
SFWW# 22	200000000000000000000000000000000000000	1948 + 1030 2592	0.5
SF WW#23		2592	
SFW.W#29		र्हें इंटर	
SF WW#24B		148	
SF W.W# 25		148	
SF W.W.# a6		1036	
SF WW#26B		1/20	
05 1111000		438	
JF WW# 33B		148	
ST WWITTZZB		148	
			A CONTRACTOR OF THE CONTRACTOR
			3

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



Soil Profile

Project: Wrigley to P	inar Dinalina			Date: 11	15/2019
Project Number:	11488	Latitude:	32.472852	Longitude:	-103.217223
Pepth (ft. bgs)			De	escription	
1	Rec	I Sand w	1 Clay		
2			1		
3					
4 ~~~~~					
5	Cali	cla			
6 marson TD					
7	22777777				
8	9630.45053				
9	The set of the second second second				
10					
11					
12				• • • • • • • • • • • • • • • • • • • •	
13			*****************		
14	*********				
15	**********	****************			
16	********	*************************			
17					
18	***********				
19	********				
20				••••••	
21					
22					
23					
24					
25	4				
26	*******				
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29	********				
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31					
32	********				
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35					
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38					
39					
40					

Appendix C Laboratory Analytical Reports



November 20, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: WRIGLEY TO PIPER

Enclosed are the results of analyses for samples received by the laboratory on 11/14/19 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

BTEX 8021B

11/20/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP - 1 @ SURFACE (H903873-01)

	9,	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.74	86.9	2.00	5.83	
Toluene*	<0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.82	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.75	87.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.27	87.8	6.00	5.94	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	11/18/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2019	ND	217	109	200	1.41	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	207	104	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					
Surrogate: 1-Chlorooctane	87.9	% 41-142	•						
Surrogate: 1-Chlorooctadecane	90.5	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP - 2 @ SURFACE (H903873-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.74	86.9	2.00	5.83	
Toluene*	0.061	0.050	11/19/2019	ND	1.74	86.8	2.00	5.82	
Ethylbenzene*	0.080	0.050	11/19/2019	ND	1.75	87.4	2.00	6.00	
Total Xylenes*	0.296	0.150	11/19/2019	ND	5.27	87.8	6.00	5.94	
Total BTEX	0.437	0.300	11/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	11/18/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2019	ND	217	109	200	1.41	
DRO >C10-C28*	11.3	10.0	11/15/2019	ND	207	104	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					
Surrogate: 1-Chlorooctane	89.0	% 41-142							
Surrogate: 1-Chlorooctadecane	89.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

RTFY 8021R

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number:

11488

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP - 3 @ SURFACE (H903873-03)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.74	86.9	2.00	5.83	
Toluene*	<0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.82	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.75	87.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.27	87.8	6.00	5.94	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	11/18/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2019	ND	217	109	200	1.41	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	207	104	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					
Surrogate: 1-Chlorooctane	90.1 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	89.2 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP - 4 @ SURFACE (H903873-04)

B1EX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.74	86.9	2.00	5.83	
Toluene*	<0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.82	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.75	87.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.27	87.8	6.00	5.94	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	11/18/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2019	ND	217	109	200	1.41	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	207	104	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					
Surrogate: 1-Chlorooctane	94.6	% 41-142							
Surrogate: 1-Chlorooctadecane	94.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP - 4 @ 2' (H903873-05)

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/15/2019	ND	1.74	86.9	2.00	5.83	
<0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.82	
<0.050	0.050	11/15/2019	ND	1.75	87.4	2.00	6.00	
<0.150	0.150	11/15/2019	ND	5.27	87.8	6.00	5.94	
<0.300	0.300	11/15/2019	ND					
100 9	% 73.3-12	9						
mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
48.0	16.0	11/18/2019	ND	416	104	400	3.77	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/15/2019	ND	217	109	200	1.41	
<10.0	10.0	11/15/2019	ND	207	104	200	2.09	
<10.0	10.0	11/15/2019	ND					
96.0	% 41-142							
94.0	% 37.6-14	7						
	<0.050 <0.050 <0.050 <0.150 <0.300 100 9 mg/ Result 48.0 mg/ Result <10.0 <10.0 <96.0 9	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 T3.3-12 mg/kg Result Reporting Limit 48.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 41-142	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP - 5 @ SURFACE (H903873-06)

B1EX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.74	86.9	2.00	5.83	
Toluene*	< 0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.82	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.75	87.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.27	87.8	6.00	5.94	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18200	16.0	11/18/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2019	ND	217	109	200	1.41	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	207	104	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					
Surrogate: 1-Chlorooctane	95.5	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	96.4	% 37.6-14	7						

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Celey D. Kune



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported: Project Name: 11/20/2019

Sampling Type:

Soil

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location: 11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP - 6 @ SURFACE (H903873-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.74	86.9	2.00	5.83	
Toluene*	<0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.82	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.75	87.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.27	87.8	6.00	5.94	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	11/18/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	217	109	200	1.41	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	207	104	200	2.09	
EXT DRO >C28-C36	17.1	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	102 %	6 41-142	ı						
Surrogate: 1-Chlorooctadecane	97.3 9	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP - 7 @ SURFACE (H903873-08)

BIEX 8021B	mg/	^и кд	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.74	86.9	2.00	5.83	
Toluene*	<0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.82	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.75	87.4	2.00	6.00	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.27	87.8	6.00	5.94	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8640	16.0	11/18/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	217	109	200	1.41	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	207	104	200	2.09	
EXT DRO >C28-C36	13.9	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	92.4	% 41-142							
Surrogate: 1-Chlorooctadecane	87.8	% 37.6-14	7						

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Celeg & Frence



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

mg/kg

Sampling Type:

Soil

Project Name:

BTEX 8021B

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP - 8 @ SURFACE (H903873-09)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.72	86.2	2.00	5.76	
Toluene*	<0.050	0.050	11/15/2019	ND	1.72	86.0	2.00	5.91	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.59	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.22	87.0	6.00	5.70	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Chloride, SM4500CI-B Analyte	mg/ Result	Reporting Limit	Analyze Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
,			-	-	BS 416	% Recovery	True Value QC 400	RPD 3.77	Qualifier
Analyte	Result	Reporting Limit	Analyzed 11/18/2019	Method Blank		•	·		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 11/18/2019	Method Blank		•	·		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 13600 mg/	Reporting Limit 16.0	Analyzed 11/18/2019 Analyze	Method Blank ND d By: MS	416	104	400	3.77	
Analyte Chloride TPH 8015M Analyte	Result 13600 mg/	Reporting Limit 16.0 kg Reporting Limit	Analyzed 11/18/2019 Analyze Analyzed	Method Blank ND d By: MS Method Blank	416 BS	104 % Recovery	400 True Value QC	3.77 RPD	

Analyzed By: MS

Surrogate: 1-Chlorooctane

41-142

Surrogate: 1-Chlorooctadecane

90.0 %

93.3 %

37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP - 9 @ SURFACE (H903873-10)

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/19/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	11/18/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	217	109	200	1.41	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	207	104	200	2.09	
EXT DRO >C28-C36	12.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	91.3	% 41-142	•						
Surrogate: 1-Chlorooctadecane	88.6	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP - 10 @ SURFACE (H903873-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	11/18/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	217	109	200	1.41	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	207	104	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	93.8	% 41-142	•						
Surrogate: 1-Chlorooctadecane	89.8	% 37.6-14	7						

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*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NH - 1 @ SURFACE (H903873-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	217	109	200	1.41	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	207	104	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	94.4 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	90.2 9	37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NH - 1 @ 1' (H903873-13)

B1EX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	217	109	200	1.41	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	207	104	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	92.8 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	88.5	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NH - 2 @ SURFACE (H903873-14)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	217	109	200	1.41	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	207	104	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	88.0	% 41-142							
Surrogate: 1-Chlorooctadecane	81.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NH - 2 @ 1' (H903873-15)

BIEX 8021B	mg/l	kg	Anaiyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.77	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	92.2 %	6 41-142							
Surrogate: 1-Chlorooctadecane	91.8 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NH - 3 @ SURFACE (H903873-16)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	94.4	% 41-142	,						
Surrogate: 1-Chlorooctadecane	93.5	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Applyzod By: MC

Received:

RTFY 8021R

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NH - 3 @ 1' (H903873-17)

BIEX 8021B	mg/l	kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	92.9 %	6 41-142							
Surrogate: 1-Chlorooctadecane	93.5 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NH - 4 @ SURFACE (H903873-18)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	86.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.4	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

BTEX 8021B

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NH - 4 @ 1' (H903873-19)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	82.4	% 41-142							
Surrogate: 1-Chlorooctadecane	84.9	% 37.6-14	7						

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NH - 5 @ SURFACE (H903873-20)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	88.3	% 41-142	,						
Surrogate: 1-Chlorooctadecane	88.5	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Applyzod By: MC

Received:

RTFY 8021R

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NH - 5 @ 1' (H903873-21)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	88.6	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EH - 1 @ SURFACE (H903873-22)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 5	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	93.0	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	94.1	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EH - 1 @ 1' (H903873-23)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	92.1	% 41-142							
Surrogate: 1-Chlorooctadecane	94.6	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EH - 2 @ SURFACE (H903873-24)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	92.9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	90.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EH - 2 @ 1' (H903873-25)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	89.1	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	90.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EH - 3 @ SURFACE (H903873-26)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	83.4	% 41-142							
Surrogate: 1-Chlorooctadecane	82.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EH - 3 @ 1' (H903873-27)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	94.3	% 41-142	!						
Surrogate: 1-Chlorooctadecane	95.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number:

11488

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EH - 4 @ SURFACE (H903873-28)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	79.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	79.6	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EH - 4 @ 1' (H903873-29)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.80	89.8	2.00	8.23	
Toluene*	<0.050	0.050	11/15/2019	ND	1.87	93.7	2.00	17.7	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.93	96.5	2.00	18.6	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.67	94.4	6.00	19.0	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	84.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	85.4	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EH - 5 @ SURFACE (H903873-30)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.72	86.2	2.00	5.76	
Toluene*	<0.050	0.050	11/15/2019	ND	1.72	86.0	2.00	5.91	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.59	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.22	87.0	6.00	5.70	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	88.9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	90.1	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EH - 5 @ 1' (H903873-31)

DIEX GOZID	mg/	mg/ kg		Analyzed by: 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.72	86.2	2.00	5.76	
Toluene*	<0.050	0.050	11/15/2019	ND	1.72	86.0	2.00	5.91	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.59	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.22	87.0	6.00	5.70	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	80.6	% 41-142	•						
Surrogate: 1-Chlorooctadecane	82.6	% 37.6-14	7						

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SH - 1 @ SURFACE (H903873-32)

B1EX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.72	86.2	2.00	5.76	
Toluene*	<0.050	0.050	11/15/2019	ND	1.72	86.0	2.00	5.91	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.59	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.22	87.0	6.00	5.70	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	87.4	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	88.4	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Applyzod By: MC

Received:

RTFY 8021R

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SH - 1 @ 1' (H903873-33)

Analyte enzene* oluene* thylbenzene*	Result <0.050 <0.050	Reporting Limit 0.050	Analyzed 11/15/2019	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
oluene*		0.050	11/15/2010			•	value qu	IN D	Qualifiei
	<0.050		11/15/2019	ND	1.72	86.2	2.00	5.76	
:hylbenzene*		0.050	11/15/2019	ND	1.72	86.0	2.00	5.91	
	<0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.59	
otal Xylenes*	<0.150	0.150	11/15/2019	ND	5.22	87.0	6.00	5.70	
otal BTEX	<0.300	0.300	11/15/2019	ND					
urrogate: 4-Bromofluorobenzene (1	PID 99.1 9	% 73.3-12	9						
hloride, SM4500CI-B	mg/	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
hloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
PH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
RO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
RO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
XT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
urrogate: 1-Chlorooctane	90.3 9	% 41-142	ı						
	90.69	% 37.6-14	7						
XT DRO >C28-C36	<10.0 90.3 9	10.0	11/18/2019						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SH - 2 @ SURFACE (H903873-34)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.72	86.2	2.00	5.76	
Toluene*	<0.050	0.050	11/15/2019	ND	1.72	86.0	2.00	5.91	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.59	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.22	87.0	6.00	5.70	
Total BTEX	<0.300	0.300	11/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	221	111	200	5.59	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	215	108	200	4.69	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	88.6	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	86.0	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

RTFY 8021R

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Applyzod By: MC

Sample Received By:

Tamara Oldaker

Sample ID: SH - 2 @ 1' (H903873-35)

EX 8021B	mg/	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
nzene*	<0.050	0.050	11/15/2019	ND	1.72	86.2	2.00	5.76	
luene*	<0.050	0.050	11/15/2019	ND	1.72	86.0	2.00	5.91	
nylbenzene*	<0.050	0.050	11/15/2019	ND	1.74	86.8	2.00	5.59	
tal Xylenes*	<0.150	0.150	11/15/2019	ND	5.22	87.0	6.00	5.70	
tal BTEX	<0.300	0.300	11/15/2019	ND					
rrogate: 4-Bromofluorobenzene (P	ID 98.5	% 73.3-12	9						
loride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
loride	<16.0	16.0	11/18/2019	ND	416	104	400	0.00	
H 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
O C6-C10*	<10.0	10.0	11/15/2019	ND	215	107	200	1.14	
O >C10-C28*	<10.0	10.0	11/15/2019	ND	214	107	200	2.37	
T DRO >C28-C36	<10.0	10.0	11/15/2019	ND					
rrogate: 1-Chlorooctane	98.2	% 41-142	?						
rrogate: 1-Chlorooctadecane	109 9	% 37.6-14	7						

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Celeg & Freene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SH - 3 @ SURFACE (H903873-36)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	5.76	
Toluene*	<0.050	0.050	11/16/2019	ND	1.72	86.0	2.00	5.91	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.74	86.8	2.00	5.59	
Total Xylenes*	<0.150	0.150	11/16/2019	ND	5.22	87.0	6.00	5.70	
Total BTEX	<0.300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
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	11/15/2019	ND	215	107	200	1.14	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	214	107	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					
Surrogate: 1-Chlorooctane	97.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	107	% 37.6-14	7						

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Celey D. Kune



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/14/2019 Sampling Date: 11/12/2019 Reported: 11/20/2019 Sampling Type: Soil

Project Name: WRIGLEY TO PIPER Sampling Condition: Cool & Intact Sample Received By: Project Number: 11488 Tamara Oldaker

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SH - 3 @ 1' (H903873-37)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	5.76	
Toluene*	<0.050	0.050	11/16/2019	ND	1.72	86.0	2.00	5.91	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.74	86.8	2.00	5.59	
Total Xylenes*	< 0.150	0.150	11/16/2019	ND	5.22	87.0	6.00	5.70	
Total BTEX	<0.300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
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	11/15/2019	ND	215	107	200	1.14	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	214	107	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					
Surrogate: 1-Chlorooctane	101 9	% 41-142							
Surrogate: 1-Chlorooctadecane	111 9	6 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SH - 4 @ SURFACE (H903873-38)

B1EX 8021B	mg,	^и кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	5.76	
Toluene*	<0.050	0.050	11/16/2019	ND	1.72	86.0	2.00	5.91	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.74	86.8	2.00	5.59	
Total Xylenes*	<0.150	0.150	11/16/2019	ND	5.22	87.0	6.00	5.70	
Total BTEX	<0.300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
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	11/15/2019	ND	215	107	200	1.14	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	214	107	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					
Surrogate: 1-Chlorooctane	97.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	107	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

RTFY 8021R

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact Tamara Oldaker

Project Number:

11488

Sample Received By:

Applyzod By: MC

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SH - 4 @ 1' (H903873-39)

imit Analyzed 11/16/2019 11/16/2019 11/16/2019 11/16/2019 11/16/2019	Method Blank ND ND ND ND	BS 1.72 1.72 1.74	% Recovery 86.2 86.0 86.8	True Value QC 2.00 2.00 2.00	5.76 5.91	Qualifier
11/16/2019 11/16/2019 11/16/2019	ND ND	1.72 1.74	86.0	2.00	5.91	
11/16/2019 11/16/2019	ND	1.74				
11/16/2019			86.8	2.00	F F0	
, ,	ND				5.59	
11/16/2019		5.22	87.0	6.00	5.70	
	ND					
3.3-129						
Analyze	ed By: AC					
imit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
11/18/2019	ND	416	104	400	3.92	
Analyze	Analyzed By: MS					
imit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
11/15/2019	ND	215	107	200	1.14	
11/15/2019	ND	214	107	200	2.37	
11/15/2019	ND					
1-142						
7.6-147						
	mit Analyzed 11/15/2019 11/15/2019 11/15/2019	Analyzed By: MS mit Analyzed Method Blank 11/15/2019 ND 11/15/2019 ND 11/15/2019 ND	Analyzed By: MS mit Analyzed Method Blank BS 11/15/2019 ND 215 11/15/2019 ND 214 11/15/2019 ND	Analyzed By: MS mit Analyzed Method Blank BS % Recovery 11/15/2019 ND 215 107 11/15/2019 ND 214 107 11/15/2019 ND	Analyzed By: MS mit Analyzed Method Blank BS % Recovery True Value QC 11/15/2019 ND 215 107 200 11/15/2019 ND 214 107 200 11/15/2019 ND	Analyzed By: MS mit Analyzed Method Blank BS % Recovery True Value QC RPD 11/15/2019 ND 215 107 200 1.14 11/15/2019 ND 214 107 200 2.37 11/15/2019 ND

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SH - 5 @ SURFACE (H903873-40)

Result < 0.050	Reporting Limit	Analyzed	Method Blank					
<0.050			Mediod blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.050	11/16/2019	ND	1.72	86.2	2.00	5.76	
<0.050	0.050	11/16/2019	ND	1.72	86.0	2.00	5.91	
<0.050	0.050	11/16/2019	ND	1.74	86.8	2.00	5.59	
<0.150	0.150	11/16/2019	ND	5.22	87.0	6.00	5.70	
<0.300	0.300	11/16/2019	ND					
97.5	% 73.3-12	9						
mg/kg		Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
mg/	'kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/15/2019	ND	215	107	200	1.14	
<10.0	10.0	11/15/2019	ND	214	107	200	2.37	
<10.0	10.0	11/15/2019	ND					
92.0	% 41-142)						
101 9	% 37.6-14	7						
	<0.050 <0.050 <0.050 <0.150 <0.300 97.5 mg/ Result <16.0 mg/ Color = 10.0 <10.0 <10.0 <92.0	<0.050 <0.050 <0.050 <0.150 0.150 <0.300 97.5 % 73.3-12 mg/kg Result Reporting Limit <16.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 41-142	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

11488

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SH - 5 @ 1' (H903873-41)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	5.76	
Toluene*	<0.050	0.050	11/16/2019	ND	1.72	86.0	2.00	5.91	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.74	86.8	2.00	5.59	
Total Xylenes*	<0.150	0.150	11/16/2019	ND	5.22	87.0	6.00	5.70	
Total BTEX	<0.300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
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	11/15/2019	ND	215	107	200	1.14	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	214	107	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					
Surrogate: 1-Chlorooctane	107 %	% 41-142	!						
Surrogate: 1-Chlorooctadecane	113 %	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WH - 1 @ SURFACE (H903873-42)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	5.76	
Toluene*	<0.050	0.050	11/16/2019	ND	1.72	86.0	2.00	5.91	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.74	86.8	2.00	5.59	
Total Xylenes*	<0.150	0.150	11/16/2019	ND	5.22	87.0	6.00	5.70	
Total BTEX	<0.300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
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	11/15/2019	ND	215	107	200	1.14	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	214	107	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					
Surrogate: 1-Chlorooctane	105 %	% 41-142	!						
Surrogate: 1-Chlorooctadecane	111 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WH - 1 @ 1' (H903873-43)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	5.76	
Toluene*	<0.050	0.050	11/16/2019	ND	1.72	86.0	2.00	5.91	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.74	86.8	2.00	5.59	
Total Xylenes*	<0.150	0.150	11/16/2019	ND	5.22	87.0	6.00	5.70	
Total BTEX	<0.300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
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	11/15/2019	ND	215	107	200	1.14	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	214	107	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					
Surrogate: 1-Chlorooctane	108 9	% 41-142	1						
Surrogate: 1-Chlorooctadecane	114 9	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

RTFY 8021R

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WH - 2 @ SURFACE (H903873-44)

Result <0.050 <0.050 <0.050 <0.150 <0.300	Reporting Limit 0.050 0.050 0.050 0.150 0.300	Analyzed 11/16/2019 11/16/2019 11/16/2019 11/16/2019 11/16/2019	Method Blank ND ND ND ND ND	BS 1.72 1.72 1.74	% Recovery 86.2 86.0 86.8	True Value QC 2.00 2.00 2.00	RPD 5.76 5.91 5.59	Qualifier
<0.050 <0.050 <0.150 <0.300	0.050 0.050 0.150	11/16/2019 11/16/2019 11/16/2019	ND ND	1.72 1.74	86.0	2.00	5.91	
<0.050 <0.150 <0.300	0.050 0.150	11/16/2019 11/16/2019	ND	1.74				
<0.150 <0.300	0.150	11/16/2019			86.8	2.00	5 59	
<0.300			ND				3.33	
	0.300	11/16/2019		5.22	87.0	6.00	5.70	
98.4		11/10/2019	ND					
70.4	% 73.3-12	9						
mg/kg		Analyze	Analyzed By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
mg,	/kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/16/2019	ND	215	107	200	1.14	
<10.0	10.0	11/16/2019	ND	214	107	200	2.37	
<10.0	10.0	11/16/2019	ND					
97.8	% 41-142							
	0/, 37.6.14	7						
	mg, Result <16.0 mg, Result <10.0 <10.0 <10.0	98.4 % 73.3-12 mg/kg Result Reporting Limit <16.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <77.8 % 41-142	98.4 % 73.3-129 mg/kg Analyzed <16.0	98.4 % 73.3-129 mg/kg Analyzed By: AC Result Reporting Limit Analyzed ND Method Blank Result Reporting Limit Analyzed Nethod Blank <10.0	98.4 % 73.3-129 mg/kg Analyzed By: AC Result Reporting Limit Analyzed Nethod Blank BS < 16.0 16.0 11/18/2019 ND 416 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0 10.0 11/16/2019 ND 215	98.4 % 73.3-129 mg/kg Analyzed By: AC Result Reporting Limit Analyzed Nethod Blank BS % Recovery <16.0	98.4 % 73.3-129 mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <16.0	98.4 % 73.3-129 mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <16.0

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Applyzod By: MC

Received:

RTFY 8021R

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11400

Sample Received By:

Tamara Oldaker

Project Number:
Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WH - 2 @ 1' (H903873-45)

Result <0.050	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	DDD	
	0.050			55	% Recovery	True value QC	RPD	Qualifier
	0.050	11/16/2019	ND	1.72	86.2	2.00	5.76	
< 0.050	0.050	11/16/2019	ND	1.72	86.0	2.00	5.91	
<0.050	0.050	11/16/2019	ND	1.74	86.8	2.00	5.59	
<0.150	0.150	11/16/2019	ND	5.22	87.0	6.00	5.70	
<0.300	0.300	11/16/2019	ND					
97.6	% 73.3-12	9						
mg/kg		Analyze	Analyzed By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
mg/	/kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/16/2019	ND	215	107	200	1.14	
<10.0	10.0	11/16/2019	ND	214	107	200	2.37	
<10.0	10.0	11/16/2019	ND					
105 9	% 41-142	,						
111 9	% 37.6-14	7						
	<0.150 <0.300 97.6 mg/ Result <16.0 mg/ Result <10.0 <10.0 <10.0	<0.050 0.050 <0.150 0.150 <0.300 0.300 97.6 % 73.3-12 mg/ky Result Reporting Limit <16.0 16.0 mg/ky Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WH - 3 @ SURFACE (H903873-46)

Result <0.050	Reporting Limit	Analyzed	Method Blank	DC.				
<0.050			riculou blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.050	11/16/2019	ND	1.72	86.2	2.00	5.76	
<0.050	0.050	11/16/2019	ND	1.72	86.0	2.00	5.91	
<0.050	0.050	11/16/2019	ND	1.74	86.8	2.00	5.59	
<0.150	0.150	11/16/2019	ND	5.22	87.0	6.00	5.70	
<0.300	0.300	11/16/2019	ND					
99.2	% 73.3-12	9						
mg/kg		Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
mg,	/kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/16/2019	ND	215	107	200	1.14	
<10.0	10.0	11/16/2019	ND	214	107	200	2.37	
<10.0	10.0	11/16/2019	ND					
105	% 41-142							
111 9	% 37.6-14	7						
	<0.050 <0.050 <0.050 <0.150 <0.300 99.2 mg/ Result <16.0 mg/ Result <10.0 <10.0 <10.0	<0.050 <0.050 <0.050 <0.150 <0.300 99.2 % 73.3-12 mg/kg Result Reporting Limit <16.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 41-142	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WH - 3 @ 1' (H903873-47)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	5.76	
Toluene*	<0.050	0.050	11/16/2019	ND	1.72	86.0	2.00	5.91	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.74	86.8	2.00	5.59	
Total Xylenes*	< 0.150	0.150	11/16/2019	ND	5.22	87.0	6.00	5.70	
Total BTEX	<0.300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
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	11/16/2019	ND	215	107	200	1.14	
DRO >C10-C28*	<10.0	10.0	11/16/2019	ND	214	107	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	11/16/2019	ND					
Surrogate: 1-Chlorooctane	104 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	110 9	6 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WH - 4 @ SURFACE (H903873-48)

DIEX GOZID	ıııg,	Kg .	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	5.76	
Toluene*	<0.050	0.050	11/16/2019	ND	1.72	86.0	2.00	5.91	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.74	86.8	2.00	5.59	
Total Xylenes*	<0.150	0.150	11/16/2019	ND	5.22	87.0	6.00	5.70	
Total BTEX	<0.300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-129)						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/18/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2019	ND	215	107	200	1.14	
DRO >C10-C28*	<10.0	10.0	11/16/2019	ND	214	107	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	11/16/2019	ND					
Surrogate: 1-Chlorooctane	94.6	% 41-142							
Surrogate: 1-Chlorooctadecane	99.2	% 37.6-147	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

RTFY 8021R

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WH - 4 @ 1' (H903873-49)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2019	ND	1.71	85.6	2.00	6.30	
Toluene*	<0.050	0.050	11/16/2019	ND	1.71	85.3	2.00	6.39	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	6.22	
Total Xylenes*	<0.150	0.150	11/16/2019	ND	5.19	86.5	6.00	6.39	
Total BTEX	<0.300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2019	ND	215	107	200	1.14	
DRO >C10-C28*	<10.0	10.0	11/16/2019	ND	214	107	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	11/16/2019	ND					
Surrogate: 1-Chlorooctane	103	% 41-142	?						
Surrogate: 1-Chlorooctadecane	109	% 37.6-14	7						

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Celey D. Kune



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WH - 5 @ SURFACE (H903873-50)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2019	ND	1.71	85.6	2.00	6.30	
Toluene*	<0.050	0.050	11/16/2019	ND	1.71	85.3	2.00	6.39	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	6.22	
Total Xylenes*	<0.150	0.150	11/16/2019	ND	5.19	86.5	6.00	6.39	
Total BTEX	<0.300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2019	ND	215	107	200	1.14	
DRO >C10-C28*	<10.0	10.0	11/16/2019	ND	214	107	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	11/16/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	107 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

11/14/2019

Sampling Date:

11/12/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WH - 5 @ 1' (H903873-51)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2019	ND	1.71	85.6	2.00	6.30	
Toluene*	<0.050	0.050	11/16/2019	ND	1.71	85.3	2.00	6.39	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	6.22	
Total Xylenes*	<0.150	0.150	11/16/2019	ND	5.19	86.5	6.00	6.39	
Total BTEX	<0.300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2019	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2019	ND	215	107	200	1.14	
DRO >C10-C28*	<10.0	10.0	11/16/2019	ND	214	107	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	11/16/2019	ND					
Surrogate: 1-Chlorooctane	114	% 41-142	?						
Surrogate: 1-Chlorooctadecane	121	% 37.6-14	7						

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Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 matrix interference's. QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data. QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. 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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Celeg D. Freene

FORM-006 Revision 1.0

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

Page 54 of 59

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

Company Name.	illal o	salety solutions, Inc.		BILL TO	70				ANALYSIS REQUEST	
Project Manager:	Lance Crenshaw	***************************************	P.	P.O. #:					- 64	
Address: P.O. Box 301	x 301		0	Company:	Etech					
City: Lovington	State: NM	VM Zip: 88260		Attn:	***************************************					
Phone #: (575) 30	(575) 396-2378 Fax #: ((575) 396-1429	A	Address:	***************************************					
Project #: 11488	Project Owner:		Goodnight Midstream Ci	City:						
Project Name: Wri	Wrigley to Piper			State: 7in-)	M)	1B)		
Project Location:	Rural Lea		P	#		ride	015	802		
Sampler Name: Cat	Catalina VIIIa	**************************************	Ti di	Fax #-		hlo	8) H	X (
FOR LAB USE ONLY			MATRIX	ESERV.	SAMPLING	C	TP	ВТЕ		
Lab I.D.	Sample I.D.	AB OR (C)OMP NTAINERS UNDWATER		/BASE: COOL ER :						
1903873		# C	WA SOI OIL SLU OTH	ICE OTH	DATE TIME					
SP	SP-1 @ Surface	9 1	×	x 11/	11/12/19 9:00	×	×	×		
-	SP-2 @ Surface	g 1	×	× 11/	11/12/19 9:03	×	×	×		
3 SP	SP-3 @ Surface	9 1	×	× 11/		×	×	×		
Y SP.	SP-4 @ Surface	9	×	× 11/		×	×	×		
SP.	SP-4 @ 2'	9 1	×	× 11/		×	×	×		
6 SP.	SP-5 @ Surface	9 1	×	x 11/	11/12/19 9:12	×	×	×		
2 SP.	SP-6 @ Surface	9 1	×	× 11/	11/12/19 9:15	×	×	×		
-	SP-7 @ Surface	g 1	×	× 11/	11/12/19 9:18	×	×	×		
9 SP.	SP-8 @ Surface	9 1	×	× 11/		×	×	×		ļ
LEASE NOTE: Liability and Damas	SP-9 @ Surface	9 1	×	× 11/	11/12/19 9:24	×	×	×		
ralyses. All claims including those for regilgence and any other caus ralyses. All claims including those for regilgence and any other caus ervice. In no event shall Cardinal be lable for incidental or conseque filiates or successors arising out of or related to the performance of	The control of the amount paid by the client for the rapises. All claims including those for negligence and any other cause whatsoes including whether based in outract or lot, shall be limited to the amount paid by the client for the rapises. All claims including those for negligence and any other cause whatsoes including which unless made in writing and received by Cardinal within 30 days after completion of the applicable envise. In no event shall Cardinal be labele for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by claims the subsidiaries. This profits including the profit of the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated passence or otherwise.	for any claim arising whether bat be deemed waived unless mad ding without limitation, business or by Cardinal, regardless of whe	arising whether based in contract or tort, shall be limited to arising whether based in writing and received by Cardinal with mitation, business interruptions, loss of use, or loss of port regardless of whether such daim is based upon any of the	e limited to the amount paid ardinal within 30 days after ass of profits incurred by cli-	by the client for the completion of the applicable ent, its subsidiaries, some or otherwise.					
kelinquished By:	Date: 14-19		Ву:	111	Phone Result:		□ Yes	l □ No	Add'l Phone #:	
MAC	SS: this said	25	Drawne	Charles	REMARKS:		□ Yes	c	Add'l Fax #:	
kelinquisned by:	Date:	Received By:	By:	•						
Delivered By: (C						nail res	sults to	lance@et	Please email results to lance@etechenv.com, pm@etechenv.com.	
	Circle Oile) -3.7c	777	Sample Condition Cool Intact	CHECKED BY: (Initials)				(
Sampler - OFS - Bu	Bus - Other: Connectes	ついいい	No la Yes	1						

Page 55 of 59

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	: Etech Environmental & Safety Solutions, Inc.	& Safety Solution	ıns, Ir	nc.				1					3/1	BILL TO					ANALYSIS REQUEST	
Project Manager:	: Lance Crenshaw									P.O. #:	#							1	- 1	
Address: P.O	P.O. Box 301				***************************************	***************************************				Son	Company:	ny:		Etech	다					
City: Lovington	97	State: NM	Zip	98	Zip: 88260					Attn:		1								
Phone #: (57)	(575) 396-2378	Fax #: (575) 396-1429	96-1	429						Add	Address:	S:		***************************************						
Project #: 11488	88	Project Owner:	••	ဇ္	Goodnight Midstream	ght N	/lidst	rean		City:	.						Y	Ĝ.		
Project Name:	Wrigley to Piper									State:	0		.	Zip:		е	5M)	1B)		
Project Location:	: Rural Lea	***************************************								Pho	Phone #:	.**			***************************************	orid	301	802		
Sampler Name:	Catalina Villa						-			Fax #:	#					Chlo	Н (8	EX (
FOR LAB USE ONLY					П		MATRIX	RX			쟖	PRESERV	?	SAMPLING	G	•	TP	ВТІ		
Lab I.D.	Sample I.D.	Ģ)RAB OR (C)OMP	CONTAINERS	ROUNDWATER	ASTEWATER	DIL		UDGE	THER:	CID/BASE:	E/COOL	THER:							
	SP-10 @ Surface		(C	→ #	G	M	× S	0	_	_		(10000000)	-	11/12/19	9:27	×	×	×		
12	NH-1 @ Surface		ပ	_			×					×		11/12/19	9:30	×	×	×		
13	NH-1 @ 1'		က	_			×					×		11/12/19	10:50	×	×	×		
14	NH-2 @ Surface		9	_			×					×		11/12/19	9:33	×	×	×		
15	NH-2 @ 1'		9	_			×					×		11/12/19	10:55	×	×	×		
16	NH-3 @ Surface		9	_			×					×		11/12/19	9:36	×	×	×		
H 1	NH-3 @ 1'		9	_			×		-			×		11/12/19	11:00	×	×	×		
181	NH-4 @ Surface		ထ	_			×					×		11/12/19	9:39	×	×	×		
19	NH-4 @ 1'		ပ	_			×				p.1117	×		11/12/19	11:05	×	×	×		
20	NH-5 @ Surface		9	_			×			Ш		×		11/12/19	9:42	×	×	×		
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Car affiliates or successors arising	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed winked unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be able for incidental or consequental damages, including without inhitation, business interruptions, loss of use, or loss of profits incurred by client, its studiedness, affiliates or successors arising out of or related to the performance of services kereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	xclusive remedy for any cl whatsoever shall be deem I damages, including with rvices hereunder by Cardi	aim arisi ed waixe out limita nal, rega	ing who	ss mad ss mad ssiness of whe	ased in e in wr interru	contra iting ar ptions, ich clai	ct or to	ort, she ived b	y Card	mited linal wi of pro	to the thin 30 ofits in	amour days curred	nt paid by the clien after completion of by client, its subsi-	t for the of the applicable diarries,					
Relinquished By	no no	Date: 14-19 11-14-19 Time: 155	Re	ceiv	Received By:	lb -s	7	2		1	110	11/1	X.	My.	Phone Result Fax Result: REMARKS:	it:	□ Yes	□ □ No	Add'l Phone #: Add'l Fax #:	
Relinquished By:	•	Date:	Re	ceiv	Received By:	Ву:							1							
Delivered Rv.		3	k	7			2				,	1	Ś		Please emai	_	sults to	danield(results to danield@etechenv.com	
Delivered By: (Circle One)	(Circle Une) _2.72	60	H	3		Sample Condition Cool Intact	ole C	Condi	tition		0	CHECK THE	(Initials)	34:						
Sampler - Or 3 - Dus - Ouler	1	susted -	-2.36	Sin			No		Yes		4	. 9	V							

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.	ns, Inc.	BILL TO				ANALYSIS REQUEST
Project Manager: Lance Crenshaw		P.O. #:				
Address: P.O. Box 301	***************************************	Company: Etech			-	
Sity: Lovington State: NM	Zip: 88260					
Phone #: (575) 396-2378 Fax #: (575) 3	(575) 396-1429	Address:				
Project #: 11488 Project Owner:	: Goodnight Midstream	City:		_		
Project Name: Wrigley to Piper		State: Zip:	0			
roject Location: Rural Lea		#:	orid	3015	802	
Sampler Name: Catalina Villa		Fax #:	Chl			
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING				
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			
<u>⊅(</u> NH-5 @ 1'	×	x 11/12/19	11:10 ×	×	×	
EH-1 @ Surface	×				×	
<u> </u>	×				×	
ay EH-2 @ Surface	g 1 ×		9:48 ×	×	×	
2S EH-2 @ 1'	9 1 ×	x 11/12/19 1	11:20 ×	×	×	
EH-3 @ Surface	9 1 ×	x 11/12/19 s	9:51 ×	×	×	
37 EH-3 @ 1'	σ 1 ×	x 11/12/19 1	11:25 ×	×	×	
EH-4 @ Surface	9 1 ×	x 11/12/19 s	9:54 ×	×	×	
25 EH-4 @ 1	9 1 X	x 11/12/19 1	11:30 ×	×	×	
EASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any de	g 1 x	x 11/12/19 s	9:57 ×	×	×	
those for negligance and any other cause whatcover shall be those for negligance and any other cause whatcover shall be diral be fable for incidental or consequental damages, including tout of or related to the performance of services hereunder by	any semi arising wiretiret reasent noontact of fort, si deemed walved unless made in writing and received without limitation, business interruptions, loss of use Cardinal, regardless of whether such claim is based	real be imited to the amount paid by the client for the by Cardinal within 30 days after completion of the a s, or loss of profits incurred by client, its subsidiaries upon any of the above stated reasons or otherwise.	the e applicable ies, se.			
Time: 14.55	Received By:	Pho Fax	Phone Result: Fax Result: REMARKS:	□ Yes	'es □ No	Add'i Phone #: Add'i Fax #:
telinquished By: Date: Time:	Received By:					
Delivered By: (Circle One)	Sample Condition	CHECKED RY:	ase email	results	to danield@	Please email results to danield@etechenv.com
Sampler - UPS - Bus - Other:	Cool Intact On Pres Pres	(Initials)				

Page 57 of 59

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name.	Lieu Liviolillend & Salety Soutions, Inc.	Inc.		181	BILL TO					ANALYSIS REQUEST	ų
Project Manager: Lance C	Lance Crenshaw			P.O. #:							
Address: P.O. Box 301				Company:	Etech	ch					
City: Lovington	State: NM Z	ip: 8	Zip: 88260	Attn:							
Phone #: (575) 396-2378	Fax #: (575) 396-1429	1429	U	Address:							
Project #: 11488	Project Owner:	6	Goodnight Midstream	City:		The state of the s			6		_
Project Name: Wrigley to Piper	iper			State:	Zip:		а	5M)	1B)		
Project Location: Rural Lea	8		***************************************	Phone #:			orid	301	(802		
Sampler Name: Catalina Villa				Fax #:	***************************************		Chlo	H (8	X (
FOR LAB USE ONLY		-	MATRIX	PRESERV.	SAMPLING	G	(TP	вт		
Lab I.D. S	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	TIME					
3) EH-5 @ 1'		9 1	x 1	×	11/12/19	12:00	×	×	×		
33 SH-1 @ Surface		9 1	×	×	11/12/19	10:00	×	×	×		
		9 1	×	×	11/12/19	12:05	×	×	×		
1		9	×	×	11/12/19	10:03	×	×	×		
35 SH-2 @ 1'		9 1	×	×	11/12/19	12:10	×	×	×		
36 SH-3 @ Surface		9	×	×	11/12/19	10:06	×	×	×		
		9	×	×	11/12/19	12:15	×	×	×		
28 SH-4 @ Surface		9 1	×	×	11/12/19	10:09	×	×	×		
25 SH-4 @ 1'		9 1	×	×	11/12/19	12:20	×	×	×		
PLEASE NOTE: Liability and Damages, Cardinal's liability and	Inface	9 1	×	×	11/12/19	10:12	×	×	×		
analyses. All daims including those for negligence and any other or service. In no event shall Cordinal be liable for incidental or conseq affiliates or successors arising out of or related to the performance	in s exclusive remedy for any claim suse whatsoever shall be deemed w uental damages, including without li of services hereunder by Cardinal,	rising w lived un litation, l	arising whether based in contract or tort, shall be finited to the amount p valved unless made in writing and received by Cardinal within 30 days sh mitation, business interruptions, loss of use, or loss of profits incurred by regardless of whether such claim is based upon any of the above stated	t, shall be limited to the amou ed by Cardinal within 30 day use, or loss of profits incurre sed upon any of the above st	Int paid by the client for the safter completion of the safter complete co	t for the of the applicable idiaries,					FEA
Relinquished By:	Date: 14-19	Recei	Received By:	111		Phone Result: Fax Result:		□ Yes	No No	Add'l Phone #: Add'l Fax #:	
Relinquished By:	Date: Time:	(ece	Received By: Make	1 Silola	8	REMARKS:					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		B	Sample Condition Cool Intact	tion CHECKED BY:		Please email		suits	to lance@e	results to lance@etechenv.com, pm@etechenv.com.	
	er: / like to)	TYES LIYES	1							

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Etech Environmental & Safety Solutions, Inc.	fety Solutions, Inc.	BILLTO					ANALYSIS REQUEST	
Project Manager:	: Lance Crenshaw		P.O. #:						
Address: P.O.	P.O. Box 301		Company: Et	Etech					
City: Lovington	n State:	e: NM Zip: 88260							
Phone #: (575	(575) 396-2378 Fax #:	#: (575) 396-1429	Address:						_
Project #: 11488		Project Owner: Goodnight Midstream	City:	***************************************					
Project Name:	Wrigley to Piper		State: Zip:		е	5M)	21B)		
Project Location:	: Rural Lea		#	***************************************	orid	301	802		
Sampler Name:	Catalina Villa	THE THE PROPERTY OF THE PROPER	Fax #:		Chlo	H (8	≣X (_
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	NG	(TP	втв		
Lab I.D. 1403873	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TIME		No.			
W.	SH-5 @ 1'	9 1	× 11/12/19	12:25	×	×	×		
25	WH-1 @ Surface	0 1	x 11/12/19	10:15	×	×	×		
	WH-1 @ 1'	Q 1	x 11/12/19	12:30	×	×	×		
	WH-2 @ Surface	9 1 ×	x 11/12/19	10:18	×	×	×		
45	WH-2 @ 1'	о 1	x 11/12/19	12:35	×	×	×		
32	WH-3 @ Surface	9 1 ×	x 11/12/19	10:21	×	×	×		
4/	WH-3 @ 1'	(Q)	x 11/12/19	12:40	×	×	×		
187	₹ WH-4 @ Surface	9 1 ×	x 11/12/19	10:24	×	×	×		
	WH-4 @ 1'	9 1 ×	× 11/12/19	12:45	×	×	×		
PLEASE NOTE: Liability and	WH-5 @ Surface Damages. Cardinal's liability and client's exclusive	SO WH-5 @ Surface g 11/12/19 10: PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	x 11/12/19 shall be limited to the amount paid by the clir	10:27 ant for the	×	×	×		
analyses, All claims including t service. In no event shall Card affiliates or successors arising	analyses. All claims including those for negligence and any other cause whatsoe service. In no event shall Cardinal be liable for incidental or consequental damag affiliates or successors arising out of or related to the performance of services h	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ad by Cardinal within 30 days after completion of the a use, or loss of profits incurred by client, its subsidiaries ad upon any of the above stated reasons or otherwise.	of the applicable sidiaries, therwise,					
Market by:	Time:	14-19 Received By:	Charles of the Control of the Contro	Phone Result: Fax Result: REMARKS:	#	☐ Yes	s 🗆 No	Add'l Phone #: Add'l Fax #:	
Rélinquished By:		Received By:							
Delivered By:		197 Sample Condition	ion CHECKED BY:	riease email		Suits	to danield@e	results to danield@etechenv.com	
Sampler - UPS -	Bus - Other: Passant	ing!	f						

FORM-006 Revision 1.0

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Page 59 of 59

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Company Name:	Etech Environmental & Safety Solutions, Inc.	ions, I	nc.			20	81170		1	1	Ì	ANIAN				
Project Manager:	Lance Crenshaw				P.O. #							ANALYSIS	-	REQUEST		
Address: P.O. B	P.O. Box 301			***************************************	Comp	1	2									
Lovir	State: NM	Zip	Zip: 88260		Attn:		rieci	2								
	(575) 396-2378 Fax #: (575) 396-1429	396-1	429		Address:	SS:	***************************************									
Project #: 11488	Project Owner:	er:	Goo	Goodnight Midstream	City:		777777777777777777777777777777777777777									
Project Name: W	Wrigley to Piper		The state of the s		Ctata.		7			VI)	B)					
Project Location:	Rural Lea	-		***************************************	oldie.		71b:		de	151)21					
1 =	ivuigi Loa		***************************************		Phone #:	#			orio	801	(80					
1 ::	Catalina Villa				Fax #:		***************************************		Chlo	H (8	:X (
FOR LAB USE ONLY		· .		MATRIX	PRI	PRESERV.	SAMPLING	ด์	C	TPI	вте					
Lab I.D.	Sample I.D.)RAB OR (C)OMF	CONTAINERS	ROUNDWATER ASTEWATER DIL L UDGE	HER : ID/BASE:	E/COOL HER:										
S W	WH-5 @ 1'	9	٦	×			11/12/19	10:30	×	×	×		1			
And the second of the second o		9	-	×		×	11/12/19		×	×	×					
***************************************		9	-	×		×	11/12/19		×	×	×					
A THE RESIDENCE AND ADDRESS OF THE PARTY OF		9	->	×		×	11/12/19		×	×	×					
The second secon		9	1	×		×	11/12/19		×	×	×					
***************************************		9	-	×		×	11/12/19		×	×	×					
		9	-	×		×	11/12/19		×	×	×		- 1			
The state of the s		9	1	×		×	11/12/19		×	×	×					
The state of the s		g	1	×		×	11/12/19		×	×	×					
PLEASE NOTE: Liability and Dam	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount and but the final forth.	g daim arisin	1 g whethe	er based in contract or tort, sha	be limited	×	11/12/19		×	×	×					
analyses. All claims including those service. In no event shall Cardinal to affiliates or successors arising out or Relinguished Rev.	analyses. All claims including those for regiligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In overest shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, base of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Refirm this first Rev.	ned waived out limitati inal, regar	on, busir	waved unless made in writing and received by Cardinal within 30 days after completion of the imitation, business interruptions, bass of use, or loss of profits incurred by client, its subsidiaries regardless of whether such claim is based upon any of the above stated reasons or otherwise.	Cardinal w r loss of pro	ithin 30 days ofits incurred he above sta	nt paid by the client after completion of by client, its subsicted reasons or othe	for the f the applicable diaries,								
dublied by:	Pate: 14-15	Rec	eive	Received By:	1	1		Phone Result:		□ Yes		Add'l Phone #:	ne#:			
Relinquished By:	Time:	Rec	eive	Received By:	all	S.	The same	REMARKS:		Yes		Add'l Fax #:	*:	***************************************	***************************************	***************************************
Delivered By: (C				The state of the s			TO	Please email		llts to	danield	Potochony	3			
Sampler - UPS - Bus - Other:	Sampler - UPS - Bus - Other:	A	100	Sample Condition Cool Intact TYES TYES		CHECKED BY: (Initials)		Gaod G		ulisio	danieid	results to danield@etechenv.com	com			
			٨	1												



November 20, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: WRIGLEY TO PIPER

Enclosed are the results of analyses for samples received by the laboratory on 11/15/19 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

11/15/2019

Sampling Date:

11/15/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP 1 @ 3' (H903896-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.96	98.0	2.00	0.776	
Toluene*	<0.050	0.050	11/19/2019	ND	2.04	102	2.00	1.73	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	2.06	103	2.00	3.35	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	6.12	102	6.00	3.39	
Total BTEX	<0.300	0.300	11/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	210	105	200	2.05	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	225	112	200	0.708	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					
Surrogate: 1-Chlorooctane	98.4	% 41-142							
Surrogate: 1-Chlorooctadecane	102 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

11/15/2019

Sampling Date:

11/15/2019

Reported:

11/20/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP 2 @ 3' (H903896-02)

	9/	9	71.14.1,20						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.96	98.0	2.00	0.776	
Toluene*	<0.050	0.050	11/19/2019	ND	2.04	102	2.00	1.73	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	2.06	103	2.00	3.35	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	6.12	102	6.00	3.39	
Total BTEX	<0.300	0.300	11/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	210	105	200	2.05	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	225	112	200	0.708	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					
Surrogate: 1-Chlorooctane	90.3	% 41-142							
Surrogate: 1-Chlorooctadecane	92.9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/15/2019

Sampling Date:

11/15/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP 5 @ 3' (H903896-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.96	98.0	2.00	0.776	
Toluene*	<0.050	0.050	11/19/2019	ND	2.04	102	2.00	1.73	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	2.06	103	2.00	3.35	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	6.12	102	6.00	3.39	
Total BTEX	<0.300	0.300	11/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	210	105	200	2.05	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	225	112	200	0.708	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					
Surrogate: 1-Chlorooctane	97.9 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	101 %	6 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

11/15/2019

Sampling Date:

11/15/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

ma/ka

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

Project Number: Project Location:

RTFY 8021R

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP 6 @ 4' (H903896-04)

BIEX 8021B	mg	/ kg	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.96	98.0	2.00	0.776	
Toluene*	<0.050	0.050	11/19/2019	ND	2.04	102	2.00	1.73	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	2.06	103	2.00	3.35	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	6.12	102	6.00	3.39	
Total BTEX	<0.300	0.300	11/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4680	16.0	11/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	210	105	200	2.05	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	225	112	200	0.708	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					
Surrogate: 1-Chlorooctane	94.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

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Celeg & Frence



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/15/2019

Sampling Date:

11/15/2019

Reported:

11/20/2019

mg/kg

Sampling Type:

Soil

Project Name:

BTEX 8021B

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact

Project Number:

11488

Analyzed By: MS

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP 6 @ 5' (H903896-05)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.96	98.0	2.00	0.776	
Toluene*	<0.050	0.050	11/19/2019	ND	2.04	102	2.00	1.73	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	2.06	103	2.00	3.35	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	6.12	102	6.00	3.39	
Total BTEX	<0.300	0.300	11/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-129	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	11/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	210	105	200	2.05	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	225	112	200	0.708	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					
Surrogate: 1-Chlorooctane	93.1	% 41-142							
Surrogate: 1-Chlorooctadecane	95.6	% 37.6-147	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/15/2019

Sampling Date:

11/15/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number: Project Location: 11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP 7 @ 3' (H903896-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.96	98.0	2.00	0.776	
Toluene*	<0.050	0.050	11/19/2019	ND	2.04	102	2.00	1.73	
Ethylbenzene*	< 0.050	0.050	11/19/2019	ND	2.06	103	2.00	3.35	
Total Xylenes*	< 0.150	0.150	11/19/2019	ND	6.12	102	6.00	3.39	
Total BTEX	<0.300	0.300	11/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	210	105	200	2.05	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	225	112	200	0.708	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					
Surrogate: 1-Chlorooctane	96.1	% 41-142	!						
Surrogate: 1-Chlorooctadecane	97.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

11/15/2019

Sampling Date:

11/15/2019

Reported:

11/20/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number: Project Location: 11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP 8 @ 4' (H903896-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.96	98.0	2.00	0.776	
Toluene*	<0.050	0.050	11/19/2019	ND	2.04	102	2.00	1.73	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	2.06	103	2.00	3.35	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	6.12	102	6.00	3.39	
Total BTEX	<0.300	0.300	11/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	11/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	210	105	200	2.05	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	225	112	200	0.708	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					
Surrogate: 1-Chlorooctane	101 9	6 41-142							
Surrogate: 1-Chlorooctadecane	103 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received: Reported:

11/20/2019

ma/ka

11/15/2019

Sampling Date: 11/15/2019 Sampling Type: Soil

Project Name:

RTFY 8021R

WRIGLEY TO PIPER

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

Project Number:

11488

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP 9 @ 4' (H903896-08)

B1EX 8021B	mg,	r Kg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.96	98.0	2.00	0.776	
Toluene*	<0.050	0.050	11/19/2019	ND	2.04	102	2.00	1.73	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	2.06	103	2.00	3.35	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	6.12	102	6.00	3.39	
Total BTEX	<0.300	0.300	11/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	11/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	,						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	210	105	200	2.05	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	225	112	200	0.708	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					
Surrogate: 1-Chlorooctane	98.3	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

11/15/2019

Sampling Date:

11/15/2019

Reported:

11/20/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP 9 @ 5' (H903896-09)

B1EX 8021B	mg,	r Kg	Апануге	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.96	98.0	2.00	0.776	
Toluene*	<0.050	0.050	11/19/2019	ND	2.04	102	2.00	1.73	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	2.06	103	2.00	3.35	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	6.12	102	6.00	3.39	
Total BTEX	<0.300	0.300	11/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	11/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	210	105	200	2.05	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	225	112	200	0.708	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142)						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

11/15/2019 11/20/2019 Sampling Date:

11/15/2019

Reported: Project Name:

Sampling Type:

Soil

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP 10 @ 4' (H903896-10)

B1EX 8021B	mg,	кg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2019	ND	1.80	90.1	2.00	2.37	
Toluene*	<0.050	0.050	11/20/2019	ND	1.78	89.1	2.00	2.44	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.82	90.8	2.00	2.24	
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.46	91.0	6.00	2.79	
Total BTEX	<0.300	0.300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	210	105	200	2.05	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	225	112	200	0.708	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					
Surrogate: 1-Chlorooctane	97.9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	99.1	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

11/15/2019

Sampling Date:

11/14/2019

Reported:

11/20/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SP 3 @ 2' (H903896-11)

	91	9	71.14.1,24	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2019	ND	1.80	90.1	2.00	2.37	
Toluene*	<0.050	0.050	11/20/2019	ND	1.78	89.1	2.00	2.44	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.82	90.8	2.00	2.24	
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.46	91.0	6.00	2.79	
Total BTEX	<0.300	0.300	11/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-129)						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/20/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	210	105	200	2.05	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	225	112	200	0.708	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					
Surrogate: 1-Chlorooctane	101 9	% 41-142							
Surrogate: 1-Chlorooctadecane	104 9	37.6-147	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Freene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

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

3.30

3.70

pm@etechenv.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824 (505) 393-2326 FAX (505) 393-247

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

(505) 393-2326 FAA (505) 393-2476	YX (202) 282-24		3-100117	(325) 6/3-/001 FAX (325)5/5/1025	BILL TO		1	1	1		ANALYSIS	S	\sim 1	삙	REQUEST	
Company Name: Goodnight Midstream	m			# 0 #		4	+	\dashv	4	4		1		┪	-	
Project Manager: Lance Crenshaw				1	1			_		_	3					
Address:			0	Company: Etech	ech					_	ns					_
City:	State:	Zīp:	_	Attn:			_	_	_	_	nio					
Phone #:	Fax #:		-	Address:			_	_	_		Ar					_
Project #: 11488	Project Owner:			City:				5 N		PH	1s/					
Project Name: Wrigley to Piper Pipeline	line		10	State:	Zip:	do		_		TF	ior	S				
Broject Location:			_	Phone #:		ri	ori		ΓE	S	at	D				
Floject Location.				av #.		10		-	-	(a	C	T		_		
Sampler Name: Catalina Baeza			L	rax #:	SAMBI ING			_	_	ex	е				_	
FOR LAB USE ONLY			200	77.00				11		Т	plet					
Lab I.D. Sample I.D.	.b.	G)RAB OR (C)C CONTAINERS GROUNDWATER WASTEWATER	SOIL DIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	DATE	TIME					Com			7		
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SPS 9 5		G 1	<	<	11/15/19	10:00	_	^	1				1	+	-	
		G 1	٠	•	11/15/19	10:20	^	1	1			T	T	+	+	
		G 1	<		11/15/19	10:30	`	`	`				+	+	+	
SP9 @ 4"		G 1	_		11/15/19	10:50	`	`	`					+	+	
09 SP9 @ 5'		G 1	. <		11/15/19	11:30	`	1	\			1	+	+	+	
4'		G 1	<	_ <	11/15/19	11:35	Ľ	Ľ	Ľ		Г	t	t	ŀ	+	
and Damages. Cardinal's uding those for negligence Il Cardinal be liable for incid	lability and client's exclusive remedy for any claim arising whether based in contract or ton, shall be limited to the amount paid by the client for the and to the and the contract or ton, shall be limited to the amount paid by the death of the and any other cause whatspewer shall be deemed waived unless made in writing and received by Centrals within 30 days after completion of the a substitute and the contract of profits increased by client, its substitutes the contract of the above and reserved the contract of the	ny claim arising wheth deamed waived unless without limitation, but	her based in contract s made in writing and siness interruptions, i	or tort, shall be limited received by Cardinal oss of use, or loss of p	to the amount paid within 30 days after polits incurred by cl	by the dient for the completion of the a ent, its subsidiaries one or otherwise.	pplicable									
efficiales or successors arising out of or related to the performan	oe of services hersunder by (Cardinal, regardless of whether such claim Received By:	whether such claim i	is based upon any of the above saled reading Phone Res	and contact and the	Phone Result:	T.	□ Yes	9 19	No	Add'I Phone #:	Phon	#:	Ш		
Relinquished by:	1000		2	MACINI	2	Fax Result: REMARKS:		□ Yes			Add	Fax	7			
Consisted By:	Date:	Received By:	By:	10100	(email results	esult	S								
	Time:	(

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824 (505) 393-2326 FAX (505) 393-247

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Sampler - UPS - Bus - Other: 3.30



December 16, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: WRIGLEY TO PIPER

Enclosed are the results of analyses for samples received by the laboratory on 12/10/19 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Applymed By MC

Received:

DTEV 0021D

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

ma/ka

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

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS17 (H904133-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	93.8	% 41-142	•						
Surrogate: 1-Chlorooctadecane	98.6	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS18 (H904133-02)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	106	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS19 (H904133-03)

31EX 8021B	mg,	/ Kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Foluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PI	98.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/11/2019	ND	416	104	400	0.00	
PH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	?						
Surrogate: 1-Chlorooctadecane	109	% 37.6-14	7						
5	109	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS20 (H904133-04)

DIEX GOZID	1119/	<u>ng</u>	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	110 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS21 (H904133-05)

DIEX GOZID	1119/	- Kg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	97.0	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	102 9	% 37.6-14	7						

Cardinal Laboratories

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

Soil

Project Name:

WRIGLEY TO PIPER

ma/ka

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS22 (H904133-06)

BIEX 8021B	mg/	kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2 %	6 73.3-129	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5160	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	97.0 %	6 41-142							
Surrogate: 1-Chlorooctadecane	104 %	6 37.6-14	7						

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*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

BTEX 8021B

WRIGLEY TO PIPER

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS23 (H904133-07)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-129	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	99.1	% 41-142							
Surrogate: 1-Chlorooctadecane	105	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS24 (H904133-08)

DIEX GOZID	1119/	<u>ng</u>	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	81.1	% 41-142							
Surrogate: 1-Chlorooctadecane	83.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS25 (H904133-09)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	82.6	% 41-142							
Surrogate: 1-Chlorooctadecane	84.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS26 (H904133-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	82.1 9	% 41-142							
Surrogate: 1-Chlorooctadecane	83.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS27 (H904133-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1980	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	83.6 9	% 41-142							
Surrogate: 1-Chlorooctadecane	85.49	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS28 (H904133-12)

DIEX GOZID	1119/	<u>ka</u>	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	12/11/2019	ND	416	104	400	0.00	QM-07
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	81.2	% 41-142							
Surrogate: 1-Chlorooctadecane	82.4	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS29 (H904133-13)

BIEX 8021B	mg/	kg	Anaiyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	83.1 %	6 41-142							
Surrogate: 1-Chlorooctadecane	85.0 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS30 (H904133-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	82.2 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	83.8 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS31 (H904133-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	86.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	88.4	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

RTFY 8021R

WRIGLEY TO PIPER

ma/ka

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

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS32 (H904133-16)

BIEX 8021B	mg/	kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8 9	6 73.3-129	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	84.6 %	6 41-142							
Surrogate: 1-Chlorooctadecane	86.1 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS33 (H904133-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	83.2 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	83.8 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS34 (H904133-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	75.5 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	76.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS35 (H904133-19)

	9,	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	75.6	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	76.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS36 (H904133-20)

DIEX GOZID	1119/	- Kg	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	71.1	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	71.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS37 (H904133-21)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	75.6	% 41-142							
Surrogate: 1-Chlorooctadecane	76.6	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

RTFY 8021R

WRIGLEY TO PIPER

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

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS38 (H904133-22)

B1EX 8021B	mg/	кg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	77.0	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	77.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

BTEX 8021B

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

mg/kg

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

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS39 (H904133-23)

	97	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	77.6	% 41-142							
Surrogate: 1-Chlorooctadecane	77.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS40 (H904133-24)

	979		7,200.270						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4520	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	74.6	% 41-142							
Surrogate: 1-Chlorooctadecane	76.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS41 (H904133-25)

B1EX 8021B	mg/kg		Anaiyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	75.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	76.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS42 (H904133-26)

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	78.2	% 41-142)						
Surrogate: 1-Chlorooctadecane	79.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Jodi Henson

Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS43 (H904133-27)

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	77.4	% 41-142							
Surrogate: 1-Chlorooctadecane	79.4	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS44 (H904133-28)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	85.3 9	% 41-142							
Surrogate: 1-Chlorooctadecane	87.0 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS45 (H904133-29)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	QR-03
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	QR-03
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	QR-03
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	QR-03
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	89.2 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	91.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS46 (H904133-30)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	89.1	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	90.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS47 (H904133-31)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	88.1 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	91.3 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW2 (H904133-32)

DIEX GOZID	mg/ kg		Allulyzeu by. 1-15						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	90.2	% 41-142							
Surrogate: 1-Chlorooctadecane	91.2	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sar

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW3A (H904133-33)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-129	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	91.4	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	92.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW4 (H904133-34)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/13/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/13/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/13/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	93.7 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	95.8 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW5A (H904133-35)

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	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	91.9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	92.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW6 (H904133-36)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	92.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW7A (H904133-37)

B1EX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	91.9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	93.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW8 (H904133-38)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/13/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/13/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/13/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	85.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW15B (H904133-39)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	86.5	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	87.5	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW7C (H904133-40)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	89.6	% 41-142							
Surrogate: 1-Chlorooctadecane	90.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW8 (H904133-41)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/13/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/13/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/13/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	94.69	% 41-142	!						
Surrogate: 1-Chlorooctadecane	94.8 9	% 37.6-14	7						

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*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Applyzod By: MC

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW9 (H904133-42)

B1EX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	87.6	% 41-142							
Surrogate: 1-Chlorooctadecane	88.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW13 (H904133-43)

B1EX 8021B	mg/kg		Anaiyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	92.3 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	92.4 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW14 (H904133-44)

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	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	92.0 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	92.1 9	37.6-14	7						

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Celeg D. Keene



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celeg D. Freene

Relinquished By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

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Project Manager: Lance Crenshaw	nce Crenshaw				P.	P.O. #:									7	
Address:					C	Company: Etech	Etech						s			
City:	State:	Zip:			A	Attn:							on			
Phone #:	Fax #:				A	Address:							ni			
Project #: 11488	Project Owner:	er.			C	City:			3	M		Н	s/A			
Project Name: Wrigley to Piper	y to Piper				St	State:	Zip:		les	5	<	PI	ons			
Project Location: Lea County	a County				P	Phone #:			ric	01	E	s T	atio	os		
Sampler Name: Matt Grieco	Grieco				Fa	Fax #:			llo	18	ЗТ	a	Ca	T		
FOR LAB USE ONLY				MATRIX		PRESERV	SAMPLING	NG	Ch	7	E	ex	е			
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PLEASE NOTE: Liability and Damager analyses. All claims including those for	PLEASE NOTE: Liability and Damages. Cardina's liability and client's acclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for neglicance and any other cause whatsoever shall be deemed waived unless made in written and received by Cardinal within 30 days after completion of the analyses.	any clain	waived waived	whether based in o	contract or to	rt, shall be limited	to the amount paid	by the client for the		I	I					

Sampler - UPS - Bus - Other: 0,90

J. F.

去

Sample Condition
Cool Intact
Ves Pres
No No

pm@etechenv.com

Delivered By: (Circle One)

Date:

Received By:

Fax Result: REMARKS:

☐ Yes

No No

Add'I Fax #:

email results

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Goodnight Midstream												3	BILL TO						A	ANALYSIS	S		REQUEST	Ĕ	S			J			_
Project Manager: Lance Crenshaw								_	P.O. #:	3 ±							┪	\dashv	\dashv	4			4		\dashv	\exists	4	-	\dashv	-	_
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Project #: 11488 Pr	Project Owner:	7						_	City:	.,					;	М		1	_	s/A					_		_				
Project Name: Wrigley to Piper								10	State:	6.			Zip:		les	15	_	PI	_	ons	i.				_		_				_
Project Location: Lea County								77	Phone #:	90	#				ric	01	E	_	_	atic	os		_		_		_		_		
Sampler Name: Matt Grieco			. 1					70	Fax #:	#					nlo	8		_	_	Ca	T				_		_		_		
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TEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any cleim insting whether based in contract or tort, shall be limited to the amount paid by the client for the Innalyses. All claims including those for negligence and any other cause what bower that be deemed valvind unless reade in writing and manived by Cardinal within 30 days after competion of the applicable herice. In no event shall Cardinal be liable for nodemal or consequential damages, including eithout finitiation, business intemptions, loss of use, or loss of profits incurred by Clerk its statistical reliable. If the consequence is a statistic or of or related to the performance of services hereusdey by Cardinal, ingardless of whether south cleim is based upon any of the above stated reasons or otherwise.	s acutative remedy for any claims arising whether based in contract or ton, shall be limited to the amount paid by the client for the se whatsoever shall be deemed walved unless made in writing and mouved by Cardinal within 30 days after compision of the a substance, including without limitation, buleness intemptions, loss of use, or loss of profits incumed by client, its substations services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ny claim leamed v without i ardinal, n	arising valved imitati egardi	unles on, bu	her ba is mad siness wheth	de in w	contraction of class	and ra	tort, s conver s of un	d by C	ardina loss o	ed to	e trendy for any claim string whether based in contract or tort, shall be limited to the amount paid by the client for the sever shall be deemed waived unless made in writing and meaved by Cardinal within 30 days after completion of the a agea, including without limitation, business intemptions, loss of use, or loss of profits incumed by client, its substainaiss sesunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or of thewise.	by the client for the completion of the ent, its subsidiarie ons or otherwise.	applicat	ě									1	, V					
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824 (505) 393-2326 FAX (505) 393-247

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

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Project Manager:	": Lance Crenshaw									-	0.0	P.O. #:	1"	1	-									-					_				
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Phone #:	77	Fax #:								-	å	ar	Address:								Ar			_					_		_		
Project #: 11488		Project Owner:	7								City:						s	M		Ή	ıs/								_				
Project Name: V	rigley to Piper									-	Sta	State:			Zip:		de	15	X	TP	or	3		_					_		_		_
Project Location: Lea County	n: Lea County										ş	Phone #:	#	1			ori	80	ΓE	s	at	DS		_					_		_		_
Sampler Name: Matt Grieco	Matt Grieco								ш		Fau	Fax #:					hlo	H	В	xa	С	T		_					_		_		
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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		Т			Comple												
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20	FS43		G	_	-	-	<	-					4		12/9/19		<	1			T	T		+		+			+		+		1
25	FS44		G	_		-	<	-					<		12/9/19							T	Ť	+		t			+		+		
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 05) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Name Name	-			BILL TO		١	١			ANA	ANALYSIS		REQUEST	TS		
Project Manager	Project Manager: Lance Crenshaw		P.O. #:		Ц	_							77			
Address:			Company: Etech	tech		_				ns						
City:	State:	Zip:	Attn:			_				nio						
Phone #:	Fax #:		Address:			_	1			Ar						
Project #: 11488	8 Project Owner:	ner:	City:				N		'n	15/						
Project Name:	rigley to Piper		State:	Zip:		de	15	Χ	TP	ior						
Project I postio	n: Lea County		Phone #:			_	30	E	s	at	D					
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Sampler Name: Matt Grieco	Matt Grieco		Fa	1		_	Ή	E	ex	e (
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		TP		Te	Complete						
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35	NW5A	G 1	\ \ \	12/9/19		1	4	4		T	t	T	t	+	+	
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5.	SW7C	G 1	\ 	12/9/19		1	1	~	Г	Г	H	H	H	1	-	
PLEASE NOTE: Liability analyses. All claims incluses services in no event shall	Cardinal's liability and clie agligence and any other is se for incidental or conse	nn's exclusive remedy for any claim arising whether based in co cause whatscover shall be deamed walved unless made in write quental damages, including without limitation, business interrupt	esed in contract or tort, shall be limited in writing and received by Cardina as interruptions, loss of use, or loss of	t or torf, shall be limited to the amount paid by the client for the d received by Cardinal within 30 days after completion of the a loss of use, or loss of profits incurred by client, its subsidiaries to be add upon a month, about stated flasons or otherwise.	y the client for the completion of the int, its subsidiarie ons or otherwise	applicab s.										
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Sampler - UPS	S - Bus - Other: U. Y.	-	Yes Larres	1												

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

	(505) 393-2326 FAX (505) 393-2476	2476		325	6	ū	là	13	Jz	7\$	10	0	ıl?		(325) 6/3-/001 FAX (325)6/3-/020		١	1	1	1	SISA IVNO	š		REQUEST	ĔΙ	S	٦	1			
Company Name:	Goodnight Midstream												0	15	BILL 10	1	1			1	7	1	-	4	17	4!	F	+	4	_	
Project Manager:	-						Ш		1	P	P.O. #:	777			ľ								-	_		_		_	_		
Address:										2	3	an	×.	E	Company: Etech						ns			_						_	
City:	State:	Zip:	ö							A	Attn:	1									nio	-		_		_		_	_	_	
Phone #:	Fax #:								-	A	Address:	SS	7.					1			Ar	-		_				_	_	_	
Project #: 11488	88 Project Owner:	er:								O	City:						s	N		'n	ıs/	100		_		_		_		_	_
Project Name:	rigley to Piper									St	State:			N	Zip:		de	15	X	TF	ior		_	_		_		_	_		
Project Locatio	Project Location: Lea County									무	Phone #:	#	"				ori	80	TE	as	at	D						_			
Campior Name:	Mat Crisco									Fa	Fax #:	.T					hle	+	B.	xa	C		-	_				_			_
Sampler Name: Matt Grieco	Matt Grieco	1	4	4	1	_	MATRIX	힣	I	1	핃	PRESERV.	Ŕ	≤	SAMPLING	G	Cł	2	1	e	e	_	_	_				_			
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PLEASE NOTE: Liability analyses. All claims. Inclu- service. In no event shall	ability and client's exclusive read any other cause whatsoeve near or consequental damages are formance of services here.	medy for any claim arising whether based in or r shall be deemed waived unless made in writ r, including without limitation, business interrup under by Cardinal, regardless of whether such	claim med thout	arisin waive limite	g why don, t	other ess m of wh	base lade in	d in a	ontra ing a ptions	nd re	of u	ball t	a lim Cardi loss any	nai w	ntract or tort, shall be limited to the amount paking and received by Cardinal within 30 days after tions, loss of use, or loss of profits incurred by or claim is based upon any of the above stated rea	aid by the diant for the her completion of the y client, its subsidiarie vasions or otherwise	the applica	Ď.							1	1	1				
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December 17, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: WRIGLEY TO PIPER

Enclosed are the results of analyses for samples received by the laboratory on 12/11/19 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By: Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS48 (H904154-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	90.2	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	88.7	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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12/10/2019

Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

(575) 396-1429

12/11/2019 Sampling Date:

Fax To:

Reported: 12/17/2019 Sampling Type: Soil

Project Name: WRIGLEY TO PIPER Sampling Condition: Cool & Intact
Project Number: 11488 Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

ma/ka

Sample ID: FS49 (H904154-02)

Received:

RTFY 8021R

		кд		а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	12/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	92.5 9	% 41-142							
Surrogate: 1-Chlorooctadecane	92.2 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS50 (H904154-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	93.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.2	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS51 (H904154-04)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	12/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	98.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS52 (H904154-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	12/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	96.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS53 (H904154-06)

DIEX GOZID	1119/	<u>ka</u>	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	92.8	% 41-142							
Surrogate: 1-Chlorooctadecane	96.6	% 37.6-14	7						

Cardinal Laboratories

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS54 (H904154-07)

DIEX GOZID	1119/	<u>ka</u>	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-129	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	83.3	% 41-142							
Surrogate: 1-Chlorooctadecane	82.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS55 (H904154-08)

DIEX GOZID	1119/	- Kg	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	87.6	% 41-142							
Surrogate: 1-Chlorooctadecane	86.2	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS56 (H904154-09)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	96.4	% 41-142							
Surrogate: 1-Chlorooctadecane	92.0	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS57 (H904154-10)

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	93.0	% 41-142							
Surrogate: 1-Chlorooctadecane	89.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS58 (H904154-11)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	92.0 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS59 (H904154-12)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	91.0 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	87.7 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS60 (H904154-13)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	88.7	% 41-142							
Surrogate: 1-Chlorooctadecane	84.0	% 37.6-14	7						

Cardinal Laboratories

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS61 (H904154-14)

DIEX GOZID	1119/	- Kg	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	98.0	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	97.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW9A (H904154-15)

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	12/16/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	94.8 9	% 41-142							
Surrogate: 1-Chlorooctadecane	92.79	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW10 (H904154-16)

B1EX 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	12/16/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	71.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	73.1	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW11B (H904154-17)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.76	88.2	2.00	12.6	QR-03
Toluene*	<0.050	0.050	12/14/2019	ND	1.73	86.7	2.00	17.5	QR-03, QM-07
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.75	87.7	2.00	16.0	QR-03, QM-07
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.08	84.7	6.00	16.0	QR-03, QM-07
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	76.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	78.2	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

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

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW12 (H904154-18)

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	12/14/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/14/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	79.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	81.5	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Applyzod By: MC

Received:

RTFY 8021R

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

ma/ka

Cool & Intact

Project Number:

11488

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW13 (H904154-19)

Result <0.050 <0.050 <0.050 <0.150 <0.300	Reporting Limit 0.050 0.050 0.050 0.150	Analyzed 12/14/2019 12/14/2019 12/14/2019	Method Blank ND ND	BS 1.76 1.73	% Recovery 88.2 86.7	True Value QC 2.00	RPD 12.6	Qualifier
<0.050 <0.050 <0.150	0.050 0.050	12/14/2019					12.6	
<0.050 <0.150	0.050		ND	1.73	96.7			
<0.150		12/14/2019			00.7	2.00	17.5	
	0.150	,, _ 513	ND	1.75	87.7	2.00	16.0	
< 0.300	0.130	12/14/2019	ND	5.08	84.7	6.00	16.0	
	0.300	12/14/2019	ND					
103	% 73.3-12	9						
mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
144	16.0	12/16/2019	ND	416	104	400	3.77	
mg	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
<10.0	10.0	12/13/2019	ND					
78.8	% 41-142	!						
	Result 144 mg, Result <10.0 <10.0	mg/kg Result Reporting Limit 144 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0	mg/kg Analyzed Result Reporting Limit Analyzed 144 16.0 12/16/2019 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank 144 16.0 12/16/2019 ND Manalyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS 144 16.0 12/16/2019 ND 416 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery 144 16.0 12/16/2019 ND 416 104 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	mg / kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 144 16.0 12/16/2019 ND 416 104 400 mg / kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 144 16.0 12/16/2019 ND 416 104 400 3.77 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW14 (H904154-20)

BIEX 8021B	mg/	kg	Anaiyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/14/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	78.6 %	6 41-142							
Surrogate: 1-Chlorooctadecane	80.2 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW10 (H904154-21)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/16/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	75.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	77.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

RTFY 8021R

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW11A (H904154-22)

B1EX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/14/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	80.3	% 41-142							
Surrogate: 1-Chlorooctadecane	81.7	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

RTFY 8021R

WRIGLEY TO PIPER

ma/ka

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

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW12 (H904154-23)

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/16/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	77.9	% 41-142							
Surrogate: 1-Chlorooctadecane	79.2	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW13 (H904154-24)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/14/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	76.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	78.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celeg D. Freene

Relinquished By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 3-2326 FAX (505) 393-2476

2111 Beechwood, Abilene, TX 79603 (325) 673-7001 FAX (325)673-7020

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	TDS	Fax#	Fax #:	TDS **

Sampler - UPS - Bus - Other: 2.10

Sample Condition
Cool Intact
Yes Yes
No No

Delivered By: (Circle One)

Time:

Received By:

email results

pm@etechenv.com

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824 (505) 393-2326 FAX (505) 393-247

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

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PLEASE NOTE: Liability and Damagas. Ca analyses. All claims including those for negli service. In no event shall Cardinal be liable	PLEASE NOTE: Lability and Damagas. Cardinat's lability and client's auctusive remedy for any claim arising whether based in contract or lot, shall be immaed to the acrount year by the version of the applicable analyses. All claims including those for negligence and any other cause whatscever shall be deemed subject during and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatscever shall be deemed subject during things of tues, or loss of potits incurred by cleint, its subsidiaties. Service. In no event shall Cardinal be liable for incidental or consequential claimages, including without imitation, business intemptions, loss of use, or loss of potits incurred by cleint, its subsidiaties.	for any o	claim ansing whether based in contract emed waived unless made in writing an arthout limitation, business interruptions, who it is made to be a second to the contract of the	arisin waiwa	g whi	usine	ade in	drume gum gum	ing a	d or loss	of us	s by o	any o	ned to	based in contract or tort, shall be limited to the amount, persit by the oversit or or nade in writing and received by Cardinal within 30 days after completion of the sess intemptions, loss of use, or loss of profits incurred by client, its subsidiaries when such cleam is based upon any of the above scaled reasons or otherwise.	on or otherwise	a applicat	8											1	1		1
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Same Name	TO
,	ARDINAL LABORATORIE: 101 East Marland, Hobbs, NM 88 (505) 393-2326 FAX (505) 393-2
* 11111111111	LABOR Marland, Ho 93-2326 FAX
	RDINAL LABORATORIE: 101 East Marland, Hobbs, NM 88 (505) 393-2326 FAX (505) 393-2

NAL LABORATORIES
East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
05) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

y: Etech					М	PH
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December 11, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: WRIGLEY TO PIPER

Enclosed are the results of analyses for samples received by the laboratory on 12/06/19 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/06/2019

Sampling Date:

12/02/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 1 (H904094-01)

BIEX GOEED	9/	119	Andryzo	u 2 y 1 1 1 2					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	105	2.00	6.43	
Toluene*	<0.050	0.050	12/09/2019	ND	2.08	104	2.00	6.62	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.01	101	2.00	6.14	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.77	96.2	6.00	6.08	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	228	114	200	0.419	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	232	116	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	106	% 41-142	•						
Surrogate: 1-Chlorooctadecane	109	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/02/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 2 (H904094-02)

B1EX 8021B	mg	/кд	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	105	2.00	6.43	
Toluene*	<0.050	0.050	12/09/2019	ND	2.08	104	2.00	6.62	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.01	101	2.00	6.14	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.77	96.2	6.00	6.08	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	228	114	200	0.419	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	232	116	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	109	% 41-142							
Surrogate: 1-Chlorooctadecane	113	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/02/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number:

11488 / PIPELINE

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 3 (H904094-03)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	105	2.00	6.43	
Toluene*	<0.050	0.050	12/09/2019	ND	2.08	104	2.00	6.62	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.01	101	2.00	6.14	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.77	96.2	6.00	6.08	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	228	114	200	0.419	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	232	116	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	109 %	6 41-142							
Surrogate: 1-Chlorooctadecane	113 %	37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

12/06/2019

Sampling Date:

12/02/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 4 (H904094-04)

B1EX 8021B	mg,	кg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	105	2.00	6.43	
Toluene*	<0.050	0.050	12/09/2019	ND	2.08	104	2.00	6.62	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.01	101	2.00	6.14	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.77	96.2	6.00	6.08	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	228	114	200	0.419	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	232	116	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	106	% 41-142	1						
Surrogate: 1-Chlorooctadecane	109	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 5 (H904094-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	105	2.00	6.43	
Toluene*	<0.050	0.050	12/09/2019	ND	2.08	104	2.00	6.62	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.01	101	2.00	6.14	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.77	96.2	6.00	6.08	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	228	114	200	0.419	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	232	116	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	105 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	108 9	% 37.6-14	7						

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Received:

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location: 11488 / PIPELINE

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 6 (H904094-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	105	2.00	6.43	
Toluene*	<0.050	0.050	12/09/2019	ND	2.08	104	2.00	6.62	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.01	101	2.00	6.14	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.77	96.2	6.00	6.08	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	228	114	200	0.419	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	232	116	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	105 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	110 9	% 37.6-14	7						

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Received:

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location: 11488 / PIPELINE

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 7 (H904094-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	105	2.00	6.43	
Toluene*	< 0.050	0.050	12/09/2019	ND	2.08	104	2.00	6.62	
Ethylbenzene*	< 0.050	0.050	12/09/2019	ND	2.01	101	2.00	6.14	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.77	96.2	6.00	6.08	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1900	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	230	115	200	1.93	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	254	127	200	0.643	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	92.0 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.5 9	% 37.6-14	7						

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Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 8 (H904094-08)

	кд	Anaiyze	<u> </u>					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	12/09/2019	ND	2.09	105	2.00	6.43	
<0.050	0.050	12/09/2019	ND	2.08	104	2.00	6.62	
<0.050	0.050	12/09/2019	ND	2.01	101	2.00	6.14	
<0.150	0.150	12/09/2019	ND	5.77	96.2	6.00	6.08	
<0.300	0.300	12/09/2019	ND					
100 %	6 73.3-12	9						
mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1620	16.0	12/09/2019	ND	416	104	400	3.77	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/09/2019	ND	230	115	200	1.93	
<10.0	10.0	12/09/2019	ND	254	127	200	0.643	
<10.0	10.0	12/09/2019	ND					
94.7 9	% 41-142							
93.0 9	% 37.6-14	7						
	<0.050 <0.050 <0.050 <0.150 <0.300 100 9 mg/ Result 1620 mg/ Result <10.0 <10.0 <94.7 9	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 T3.3-12 mg/kg Result Reporting Limit 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <p< td=""><td><0.050</td> 0.050 12/09/2019 <0.050</p<>	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 9 (H904094-09)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	105	2.00	6.43	
Toluene*	<0.050	0.050	12/09/2019	ND	2.08	104	2.00	6.62	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.01	101	2.00	6.14	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.77	96.2	6.00	6.08	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	230	115	200	1.93	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	254	127	200	0.643	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	90.4	% 41-142	,						
Surrogate: 1-Chlorooctadecane	88.7	% 37.6-14	7						
Surroguie. 1-Chioroociaaecahe	00./	70 37.0-14	/						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 10 (H904094-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	105	2.00	6.43	
Toluene*	<0.050	0.050	12/09/2019	ND	2.08	104	2.00	6.62	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.01	101	2.00	6.14	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.77	96.2	6.00	6.08	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	230	115	200	1.93	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	254	127	200	0.643	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	92.8 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	91.3 9	37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 12/06/2019

Sampling Date: 12/05/2019 Sampling Type: Soil 12/11/2019

Reported: Project Name: WRIGLEY TO PIPER

Sampling Condition: Cool & Intact Project Number: Sample Received By: 11488 / PIPELINE Tamara Oldaker

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 11 (H904094-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	105	2.00	6.43	
Toluene*	<0.050	0.050	12/09/2019	ND	2.08	104	2.00	6.62	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.01	101	2.00	6.14	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.77	96.2	6.00	6.08	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	230	115	200	1.93	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	254	127	200	0.643	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	88.2	% 41-142							
Surrogate: 1-Chlorooctadecane	90.6	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 12 (H904094-12)

B1EX 8021B	mg/	ĸy	Allalyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	105	2.00	6.43	
Toluene*	<0.050	0.050	12/09/2019	ND	2.08	104	2.00	6.62	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.01	101	2.00	6.14	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.77	96.2	6.00	6.08	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	230	115	200	1.93	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	254	127	200	0.643	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	89.3	% 41-142							
Surrogate: 1-Chlorooctadecane	87.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 13 (H904094-13)

Result	Reporting Limit	Analysed						
		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
< 0.050	0.050	12/09/2019	ND	2.09	105	2.00	6.43	
<0.050	0.050	12/09/2019	ND	2.08	104	2.00	6.62	
<0.050	0.050	12/09/2019	ND	2.01	101	2.00	6.14	
<0.150	0.150	12/09/2019	ND	5.77	96.2	6.00	6.08	
<0.300	0.300	12/09/2019	ND					
100 9	% 73.3-12	9						
mg/	'kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1460	16.0	12/09/2019	ND	416	104	400	3.77	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/09/2019	ND	230	115	200	1.93	
<10.0	10.0	12/09/2019	ND	254	127	200	0.643	
<10.0	10.0	12/09/2019	ND					
92.8	% 41-142	1						
90.7	% 37.6-14	7						
	<0.050 <0.050 <0.150 <0.300 100 9 mg/ Result 1460 mg/ Result <10.0 <10.0 <10.0	<0.050 <0.050 <0.050 <0.150 <0.300 0.300 73.3-12 mg/kg Result Reporting Limit 1460 16.0 mg/kg Result Reporting Limit <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 14 (H904094-14)

DILX GOZID	1119/	<u>ka</u>	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/09/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	230	115	200	1.93	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	254	127	200	0.643	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	93.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	91.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 15 (H904094-15)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/09/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	230	115	200	1.93	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	254	127	200	0.643	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	86.8	% 41-142							
Surrogate: 1-Chlorooctadecane	86.2	% 37.6-14	7						
Surroguie. 1-Chioroociaaecane	00.2	/U 3/.U-14	/						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location: 11488 / PIPELINE

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 16 (H904094-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/09/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	230	115	200	1.93	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	254	127	200	0.643	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	90.3 9	6 41-142							
Surrogate: 1-Chlorooctadecane	88.8 9	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW 1 A (H904094-17)

BIEX 8021B	mg,	кд	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/09/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (I	PID 100 :	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	97.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.6	% 37.6-14	7						
<u> </u>									

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW 2 B (H904094-18)

9/	9	Anaryzo	а ву: мѕ					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	12/09/2019	ND	2.09	104	2.00	2.55	
<0.050	0.050	12/09/2019	ND	2.04	102	2.00	2.34	
<0.050	0.050	12/09/2019	ND	2.00	100	2.00	3.00	
<0.150	0.150	12/09/2019	ND	5.87	97.9	6.00	3.97	
<0.300	0.300	12/09/2019	ND					
100 %	6 73.3-12	9						
mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
64.0	16.0	12/09/2019	ND	416	104	400	3.77	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
<10.0	10.0	12/10/2019	ND					
95.8 9	% 41-142							
92.9	37.6-14	7						
	Result <0.050 <0.050 <0.050 <0.150 <0.300 100 % mg/ Result 64.0 mg/ Result <10.0 <10.0 <95.8 %	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 0.150 <0.300 0.300 T3.3-12 mg/kg Result Reporting Limit 64.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery < 0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW 3 B (H904094-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/09/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/09/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	95.4 9	% 41-142							
Surrogate: 1-Chlorooctadecane	87.5	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW 4 A (H904094-20)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/09/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 73.3-129	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	93.0	% 41-142							
Surrogate: 1-Chlorooctadecane	89.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW 5 A (H904094-21)

B1EX 8021B	mg/	кд	Analyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/09/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	73.3-129	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	85.9	% 41-142							
Surrogate: 1-Chlorooctadecane	82.8 9	% 37.6-147	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location: 11488 / PIPELINE

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW 6 (H904094-22)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/09/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	85.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	81.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

11488 / PIPELINE

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW 7 (H904094-23)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	92.3	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	93.2	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

11488 / PIPELINE

ma/ka

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW 8 (H904094-24)

Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD	BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Toluene* < 0.050	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* <0.050 0.050 12/10/2019 ND 2.00 100 2.00 3.00 Total Xylenes* <0.150 0.150 12/10/2019 ND 5.87 97.9 6.00 3.97 Total BTEX <0.300 0.300 12/10/2019 ND Surrogate: 4-Bromofluorobenzene (PID 101 % 73.3-129 Chloride, SM4500Cl-B mg/s Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride <16.0 16.0 12/09/2019 ND 432 108 400 0.00 TPH 8015M mg/s Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 12/10/2019 ND 229 115 200 6.53 DRO >C10-C28* <10.0 10.0 12/10/2019 ND 237 119 200 6.41 EXT DRO >C28-C36 <10.0 10.0 12/10/2019 ND Surrogate: 1-Chlorooctane 92.2 % 41-142	Benzene*	<0.050	0.050	12/10/2019	ND	2.09	104	2.00	2.55	
Total Xylenes* <0.150 0.150 12/10/2019 ND 5.87 97.9 6.00 3.97 Total BTEX <0.300	Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	2.34	
Total BTEX <0.300 0.300 12/10/2019 ND Surrogate: 4-Bromofluorobenzene (PID 101 % 73.3-129 Chloride, SM4500Cl-B mg/ky Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride <16.0	Ethylbenzene*	<0.050	0.050	12/10/2019	ND	2.00	100	2.00	3.00	
Surrogate: 4-Bromofluorobenzene (PID 101 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Wethod Blank BS % Recovery True Value QC RPD Chloride <16.0	Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.87	97.9	6.00	3.97	
Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride <16.0 16.0 12/09/2019 ND 432 108 400 0.00	Total BTEX	<0.300	0.300	12/10/2019	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride <16.0 16.0 12/09/2019 ND 432 108 400 0.00 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 12/10/2019 ND 229 115 200 6.53 DRO >C10-C28* <10.0 10.0 12/10/2019 ND 237 119 200 6.41 EXT DRO >C28-C36 <10.0 10.0 12/10/2019 ND Surrogate: 1-Chlorooctane 92.2 % 41-142	Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride <16.0 16.0 12/09/2019 ND 432 108 400 0.00 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 12/10/2019 ND 229 115 200 6.53 DRO >C10-C28* <10.0 10.0 12/10/2019 ND 237 119 200 6.41 EXT DRO >C28-C36 <10.0 10.0 12/10/2019 ND Surrogate: 1-Chlorooctane 92.2 % 41-142	Chloride	<16.0	16.0	12/09/2019	ND	432	108	400	0.00	
GRO C6-C10* <10.0 10.0 12/10/2019 ND 229 115 200 6.53 DRO >C10-C28* <10.0 10.0 12/10/2019 ND 237 119 200 6.41 EXT DRO >C28-C36 <10.0 10.0 12/10/2019 ND Surrogate: 1-Chlorooctane 92.2 % 41-142	TPH 8015M	mg,	/kg	Analyze	ed By: MS					
DRO >C10-C28* < 10.0 10.0 12/10/2019 ND 237 119 200 6.41 EXT DRO >C28-C36 <10.0 10.0 12/10/2019 ND Surrogate: 1-Chlorooctane 92.2 % 41-142	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 12/10/2019 ND Surrogate: 1-Chlorooctane 92.2 % 41-142	GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
Surrogate: 1-Chlorooctane 92.2 % 41-142	DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
	EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctadecane 92.0 % 37.6-147	Surrogate: 1-Chlorooctane	92.2	% 41-142	ı						
	Surrogate: 1-Chlorooctadecane	92.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Number:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

11488 / PIPELINE

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW 9 (H904094-25)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	94.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/03/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW 10 (H904094-26)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	93.6	% 41-142							
Surrogate: 1-Chlorooctadecane	93.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

BTEX 8021B

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

mg/kg

....

Analyzed By: MS

Sample Received By: Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW 11 A (H904094-27)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	97.0	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	95.5	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 1 A (H904094-28)

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Benzene* <0.050 0.050 12/10/2019 ND 2.09 104 2.00 2.55 Toluene* <0.050 0.050 12/10/2019 ND 2.04 102 2.00 2.34 Ethylbenzene* <0.050 0.050 12/10/2019 ND 2.00 100 2.00 3.00 Total Xylenes* <0.150 0.150 12/10/2019 ND 5.87 97.9 6.00 3.97 Surrogate: 4-Bromofluorobenzene (PID Total BTEX Total Sylenes* Total Sylenes*	BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Toluene* Co.050 0.050 12/10/2019 ND 2.04 102 2.00 2.34	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* <0.050 0.050 12/10/2019 ND 2.00 100 2.00 3.00 Total Xylenes* <0.150 0.150 12/10/2019 ND 5.87 97.9 6.00 3.97 Total BTEX <0.300 0.300 12/10/2019 ND 5.87 97.9 6.00 3.97 **Surrogate: 4-Bromofluorobenzene (PID 100 % 73.3-129	Benzene*	<0.050	0.050	12/10/2019	ND	2.09	104	2.00	2.55	
Total Xylenes* <0.150 0.150 12/10/2019 ND 5.87 97.9 6.00 3.97 Total BTEX <0.300	Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	2.34	
Total BTEX	Ethylbenzene*	<0.050	0.050	12/10/2019	ND	2.00	100	2.00	3.00	
Surrogate: 4-Bromofluorobenzene (PID 100 % 73.3-129 Chloride, SM4500Cl-B mg/ky Analyzed Method Blank BS % Recovery True Value QC RPD Chloride <16.0	Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.87	97.9	6.00	3.97	
Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride <16.0	Total BTEX	<0.300	0.300	12/10/2019	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride <16.0 16.0 12/09/2019 ND 432 108 400 0.00 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 12/10/2019 ND 229 115 200 6.53 DRO >C10-C28* <10.0 10.0 12/10/2019 ND 237 119 200 6.41 EXT DRO >C28-C36 <10.0 10.0 12/10/2019 ND Surrogate: 1-Chlorooctane 96.4 % 41-142	Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride <16.0 16.0 12/09/2019 ND 432 108 400 0.00 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
TPH 8015M mg/kg Analyzed by: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 12/10/2019 ND 229 115 200 6.53 DRO >C10-C28* <10.0 10.0 12/10/2019 ND 237 119 200 6.41 EXT DRO >C28-C36 <10.0 10.0 12/10/2019 ND Surrogate: 1-Chlorooctane 96.4 % 41-142	Chloride	<16.0	16.0	12/09/2019	ND	432	108	400	0.00	
GRO C6-C10* <10.0 10.0 12/10/2019 ND 229 115 200 6.53 DRO >C10-C28* <10.0 10.0 12/10/2019 ND 237 119 200 6.41 EXT DRO >C28-C36 <10.0 10.0 12/10/2019 ND Surrogate: 1-Chlorooctane 96.4% 41-142	TPH 8015M	mg,	/kg	Analyze	d By: MS					
DRO >C10-C28* < 10.0 10.0 12/10/2019 ND 237 119 200 6.41 EXT DRO >C28-C36 <10.0 10.0 12/10/2019 ND Surrogate: 1-Chlorooctane 96.4 % 41-142	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 12/10/2019 ND Surrogate: 1-Chlorooctane 96.4 % 41-142	GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
Surrogate: 1-Chlorooctane 96.4 % 41-142	DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
	EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147	Surrogate: 1-Chlorooctane	96.4	% 41-142	•						
	Surrogate: 1-Chlorooctadecane	94.5	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EW 1 B (H904094-29)

nk BS 2.09	% Recovery	True Value QC	RPD	Qualifier
2.09	104			
	104	2.00	2.55	
2.04	102	2.00	2.34	
2.00	100	2.00	3.00	
5.87	97.9	6.00	3.97	
nk BS	% Recovery	True Value QC	RPD	Qualifier
432	108	400	0.00	
nk BS	% Recovery	True Value QC	RPD	Qualifier
229	115	200	6.53	
237	119	200	6.41	
-	nk BS 229	nk BS % Recovery 229 115	nk BS % Recovery True Value QC 229 115 200	nk BS % Recovery True Value QC RPD 229 115 200 6.53

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

11488 / PIPELINE

mg/kg

91.8 %

37.6-147

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EW 2 A (H904094-30)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	93.9	% 41-142)						

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Surrogate: 1-Chlorooctadecane

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EW 3 A (H904094-31)

BIEX 8021B	mg/I	kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-129	9						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	95.0 %	6 41-142							
Surrogate: 1-Chlorooctadecane	92.7 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EW 4 (H904094-32)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	229	115	200	6.53	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	237	119	200	6.41	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	92.4	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	89.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EW 5 A (H904094-33)

B1EX 8021B	mg,	r Kg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.09	104	2.00	2.55	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	2.34	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	2.00	100	2.00	3.00	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.87	97.9	6.00	3.97	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	226	113	200	2.18	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	233	116	200	0.803	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	108	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EW 6 (H904094-34)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	1.86	92.9	2.00	2.06	
Toluene*	<0.050	0.050	12/09/2019	ND	1.82	90.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	1.84	92.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.56	92.7	6.00	2.99	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	226	113	200	2.18	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	233	116	200	0.803	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	106 %	6 41-142	!						
Surrogate: 1-Chlorooctadecane	112 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

BTEX 8021B

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact Tamara Oldaker

Project Number:

11488 / PIPELINE

mg/kg

Sample Received By: GOODNIGHT MIDSTREAM - LEA CO NM

Analyzed By: MS

Project Location:

Sample ID: EW 7 (H904094-35)

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	1.86	92.9	2.00	2.06	
Toluene*	<0.050	0.050	12/09/2019	ND	1.82	90.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	1.84	92.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.56	92.7	6.00	2.99	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/09/2019	ND	226	113	200	2.18	
DRO >C10-C28*	<10.0	10.0	12/09/2019	ND	233	116	200	0.803	
EXT DRO >C28-C36	<10.0	10.0	12/09/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	,						
Surrogate: 1-Chlorooctadecane	110 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EW 8 (H904094-36)

BIEX 8021B	mg/	кg	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	1.86	92.9	2.00	2.06	
Toluene*	<0.050	0.050	12/09/2019	ND	1.82	90.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	1.84	92.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.56	92.7	6.00	2.99	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	226	113	200	2.18	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	233	116	200	0.803	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	106 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	112 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER 11488 / PIPELINE Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EW 9 (H904094-37)

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	1.86	92.9	2.00	2.06	
Toluene*	<0.050	0.050	12/09/2019	ND	1.82	90.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	1.84	92.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.56	92.7	6.00	2.99	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	226	113	200	2.18	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	233	116	200	0.803	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	100	% 41-142	!						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EW 10 A (H904094-38)

BIEX 8021B	mg/	kg	Апатуге	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	1.86	92.9	2.00	2.06	
Toluene*	<0.050	0.050	12/09/2019	ND	1.82	90.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	1.84	92.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.56	92.7	6.00	2.99	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5 %	6 73.3-129)						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	226	113	200	2.18	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	233	116	200	0.803	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	107 %	6 41-142							
Surrogate: 1-Chlorooctadecane	112 %	37.6-147	,						

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EW 11 C (H904094-39)

BIEX 8021B	mg/l	kg .	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	1.86	92.9	2.00	2.06	
Toluene*	<0.050	0.050	12/09/2019	ND	1.82	90.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	1.84	92.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.56	92.7	6.00	2.99	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6 %	6 73.3-129)						
Chloride, SM4500CI-B	mg/l	кg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/09/2019	ND	432	108	400	0.00	
TPH 8015M	mg/l	кg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	226	113	200	2.18	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	233	116	200	0.803	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	102 %	6 41-142							
Surrogate: 1-Chlorooctadecane	107 %	37.6-147	7						

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EW 12 (H904094-40)

BIEX 8021B	mg,	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	1.86	92.9	2.00	2.06	
Toluene*	<0.050	0.050	12/09/2019	ND	1.82	90.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	1.84	92.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.56	92.7	6.00	2.99	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (P	PID 97.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	226	113	200	2.18	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	233	116	200	0.803	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	?						
Surrogate: 1-Chlorooctadecane	108	% 37.6-14	7						
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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

11488 / PIPELINE

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: EW 13 (H904094-41)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	1.86	92.9	2.00	2.06	
Toluene*	<0.050	0.050	12/09/2019	ND	1.82	90.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	1.84	92.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.56	92.7	6.00	2.99	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	226	113	200	2.18	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	233	116	200	0.803	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	100 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	104 9	37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number: Project Location:

11488 / PIPELINE GOODNIGHT MIDSTREAM - LEA CO NM

mg/kg

Sample Received By:

Tamara Oldaker

Sample ID: EW 14 (H904094-42)

DILX GOZID	iiig/	ng .	Andryzo	u by. 145					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	1.86	92.9	2.00	2.06	
Toluene*	<0.050	0.050	12/09/2019	ND	1.82	90.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	1.84	92.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.56	92.7	6.00	2.99	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	226	113	200	2.18	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	233	116	200	0.803	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	108	% 41-142	•						
Surrogate: 1-Chlorooctadecane	112	% 37.6-14	7						

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*=Accredited Analyte

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location: 11488 / PIPELINE

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 1 A (H904094-43)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	12/09/2019	ND	1.86	92.9	2.00	2.06	
Toluene*	<0.050	0.050	12/09/2019	ND	1.82	90.8	2.00	2.88	
Ethylbenzene*	< 0.050	0.050	12/09/2019	ND	1.84	92.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.56	92.7	6.00	2.99	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	226	113	200	2.18	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	233	116	200	0.803	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	105 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	110 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 2 B (H904094-44)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	1.86	92.9	2.00	2.06	
Toluene*	<0.050	0.050	12/09/2019	ND	1.82	90.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	1.84	92.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.56	92.7	6.00	2.99	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	226	113	200	2.18	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	233	116	200	0.803	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	99.9	% 41-142							
Surrogate: 1-Chlorooctadecane	105 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 3 A (H904094-45)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2019	ND	1.86	92.9	2.00	2.06	
Toluene*	<0.050	0.050	12/09/2019	ND	1.82	90.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	12/09/2019	ND	1.84	92.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	12/09/2019	ND	5.56	92.7	6.00	2.99	
Total BTEX	<0.300	0.300	12/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	226	113	200	2.18	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	233	116	200	0.803	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	105 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	110 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/04/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 4 (H904094-46)

B1EX 8021B	mg,	rkg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	<0.050	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142							
Surrogate: 1-Chlorooctadecane	109	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 5 (H904094-47)

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	<0.050	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-129	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	106	% 41-142							
Surrogate: 1-Chlorooctadecane	113 9	37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 / PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 6 B (H904094-48)

BIEX 8021B	mg/l	kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	<0.050	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9 %	6 73.3-129	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					
Surrogate: 1-Chlorooctane	103 %	6 41-142							
Surrogate: 1-Chlorooctadecane	108 %	37.6-147	7						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Page 51 of 55

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: Goodnight Midstream	dstream			BILL	70		١	4		>	N N	ANALYSIS		REQUEST	ST	
Project Manager: Lance Crenshaw	shaw		Р.	P.O. #:			4	4					- 1			
Address:			Co	Company: Etech	ch						S					
City:	State:	Zip:	Attn:	fr.						_	on					
Phone #:	Fax #:		Ac	Address:							١ni					
Project #: 11488	Project Owner:	ner:	City:	ły:			-	M		H	s/A					
Project Name: Wrigley to Piper Pipeline	r Pipeline		St	State: Zip:	p:		7			P	on	1				
Project Location: Lea County			P	Phone #:			-		E	s 7	atio	os				
Sampler Name: Matt Grieco			Fa	Fax #:						(a	Ca	TI				
FOR LAB USE ONLY		IP.	MATRIX	PRESERV.	SAMPLING		Cł	ΓPΗ		Tex	ete					
Lab I.D. Sam	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL * OTHER :	DATE	TIME					Comple					
(FS1		G 1		< _	12/2/19	08:05	1	\	1							
2 FS2		G 1	<	< 1		08:10	۲	1	<							
S FS3		G 1	√	✓ 1	12/2/19	08:20	1	1	1							
4 FS4		و م	<	V 1	12/2/19	08:25	1	۷	1				Ĭ			
S FS5		٠ ٥	<	< 1	12/3/19	08:30	۷.	<u> </u>	1							
6 FS6		٠ 0	<	< 1	12/3/19	08:35	^	<	1							
7 FS7		٠ 0	<	< 1	12/3/19	08:40	<	<u> </u>	1							
8 FS8		G 1	<	< 1	12/3/19	09:00	<	<u> </u>	1							
9 FS9		٠ 0	<	< 1	12/3/19	09:05	1	1	1							
∤ FS10		G 1	4	√ 1	12/3/19	09:15	<u> </u>	<u> </u>	<u> </u>				10-1			
PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim acting whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligance and any other cause whatcoever shall be deemed waived unless made in writing and received by Cardinal writin 30 days after completion of the applicable sprince. In no event shall Cardinal be liable for incidental or consequental damages, including without firmlation, business interruptions, lossed use, or losses of profits incurred by client, its subsidiaries, small cardinal by client, its subsidiaries, and in the state of the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ility and client's exclusive remedy, any other cause whatsoever shall be or consequental damages, inclu informance of services hereunder.	's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the use what bower shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the annals damages, including without finitiation, business interruptions, loss of use, or loss of pofits incurred by client, it is subsidiaries are considered by the contraction of the above stated reasons or otherwise.	er based in contract or to made in writing and rece iness interruptions, loss o whether such claim is bas	t or rort, shall be limited to the amount paid by the client for the of received by Cardinal within 30 days after completion of the aş loss of use, or loss of profits incurred by client, its subsidiary is based upon any of the above stated reasons or otherwise.	e amount paid by 130 days after co incurred by clien ove stated reason	the client for the mpletion of the a mpletion of the a lt, its subsidiaries as or otherwise.	pplicable	5-						, 1		
Relinquisped By:		Received By:	7 byom	Make	Z TI D	Phone Result: Fax Result: REMARKS:		□ Yes	N O		dd'l P	Add'l Phone #: Add'l Fax #:	7.5			
Relinquished By:	Date: Time:	Received By	, ,	(0	email results	sult	Ø								
Delivered By: (Circle One)	-0.9:	#97 Sa	Sample Condition	CHECKED BY:		pm@etechenv.com	eche	.vne	com							

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

d

Sampler - UPS - Bus - Other:

Relinquished By:

Time: 30 Date: Time:

Received By:

Date: 1-19

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes ☑ No

Add'l Phone #: Add'l Fax #:

email results

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

company Name:	e: Goodnight Midstream									Ħ	0	BILL TO	0				H		ANA	ANALYSIS	100	REQUEST	Ī	4				
Project Manager:	_							7	P.O. #	*												- 17		15	1	-	4	
Address:								0	m	pan	Υ:	Company: Etech							s			_						
City:	State:	Zip:	ñ					D	Attn:										on						_	-		
Phone #:	Fax #:							>	Address:	ess	••								ni			-						
Project #: 11488	38 Project Owner:	a						C	City:						Ĭ	M		1	s/A			_						
Project Name:	Project Name: Wrigley to Piper Pipeline							S	State:			Zip:			es	5	(Pl	ns			-				-		
Project Locatio	Project Location: Lea County							ט	Phone #:	e #					ric	01	E)	s T	itic	S						-		
Sampler Name: Matt Grieco	Matt Grieco							П	Fax #:						ılo	8	ЗТ	as	Ca	TL						-		
FOR LAB USE ONLY		1.0			3	MATRIX	×		고	ΕS	PRESERV.		SAMPLING	G	Cr	7	E	ex	е								_	
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16	FS16	G	7		4	_				<		12/5/19	/19	09:16	<	<	<					ь				1		
17	WW1A	G	-		4	-				<		12/3/19	/19	09:27	<	<	<											
181	WW2B	ഒ	-	111	4	-				<		12/3/19	/19	08:03	<	<	<			Į								
19	WW3B	G	_		<	_				<		12/3/19	/19	10:48	<	<	<	T)							- 1			
20	WW4A	G	4		4	_	ř.		1.1	<		12/3/19	/19	11:54	<	<	<					1	1		1	1	1	
PLEASE NOTE: Liability an analyses. All claims including service. In no event shall C	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever fault libe dearned waived unless made in writing and reselved by Cardinal within 30 days after completion of the service. In one event shall Cardinal be liable for incledenal or consequental damages, including within 10 miles are needed by cardinal which 30 days after completion of the service in the serv	ny clain deemed	marsin waived	g whet d unles	er bas s made	ed in a	contra-	nd rec	rt, sha	be Car	imited	to the amo within 30 d	ount paid b	by the client for the	applicable							ŀ					8	
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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

-0.90

Sample Condition
Cool Intact
Pres Pres
No No

CHECKED BY: (Initials) 0

pm@etechenv.com

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

-0.90

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Cool Intact

Tyes Tyes

No 11 No Sample Condition

> CHECKED BY: (Initials) 6

> > pm@etechenv.com

Relinquished By:

Date: Time:

Received By:

email results

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	Goodnight Midstream			8//	BILL TO						NA	SISK TANA	200	REQUEST	ΓĊ		J
Project Manager:	_			P.O. #:				٦	1	1							
Address:				Company: Etech	ech						S	_					
City:	State:	Zip:		Attn:							on	-					
Phone #:	Fax #:			Address:							ni		-				
Project #: 11488	88 Project Owner:	ier:		City:				M		1	s/A						
Project Name:	Project Name: Wrigley to Piper Pipeline			State:	Zip:		les	5	(P	ns						
Project Location	Project Location: Lea County			Phone #:			ric	01	E	s T	atio	os					
Sampler Name: Matt Grieco	: Matt Grieco			Fax #:			ılo	18	3T	a	Ca	-					
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	NG	Ch	2	E	ex	e	_					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	TIME		TF		Т	Complet	33					
2/	WW5A			<u> </u>	12/3/19	08:33	<	<	<								
23	WW6	G 1	<	<u> </u>	12/3/19	08:39	<	<	<	i							
n n	WW7	G 1	4	< <	12/3/19	08:42	<	4	<								
he	WW8	G 1	4	<	12/3/19	08:53	<	<	<								
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	EW2A	G 1	<	✓	12/4/19	11:54	<	4	<			50					
PLEASE NOTE: Liability analyses. All claims include service. In no event shall affiliates or successors arises.	PLEASE NOTE: Liability and Damagas. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after competion of the applicable service. In no event shall Cardinal be lable for incidental or consequental deameges, including without limitation, business interprotons, lossed use, or losses of prefits incurred by client, its subscitairies, still deamed to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stand reasons or otherwise.	or any claim arisir be deemed waive ling without limita y Cardinal, regan	ng whether based in contract id unless made in writing and tion, business interruptions, dless of whether such claim	t or tort, shall be limited to d received by Cardinal with loss of use, or loss of prof is based upon any of the s	the amount paid hin 30 days after its incurred by cl	by the client for t completion of the ient, its subsidiari sons or otherwise	he applicab es,										1
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Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

-0.9c

Sample Condition
Cool Intact
Pres Pres
No No

CHECKED BY: (Initials)

pm@etechenv.com

0

Time:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 54 of 55

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

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

.D.9c

Cool Intact
Yes Yes Sample Condition

Ø

CHECKED BY: (Initials)

pm@etechenv.com

Time:

email results

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Relinquished By:

Page 55 of 55

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	e: Goodnight Midstream						8/1	BILL TO						AN	ANALYSIS	0.5	E C	REQUEST	ĭ				
Project Manager:	-				7	P.O. #:	#:								1		\dashv					\dashv	
Address:					C	omp	Company: Etech	tech						S	_								
City:	State:	Zip:			A	Attn:								on	•								
Phone #:	Fax #:				>	Address:	:SS:							ni									
Project #: 11488	38 Project Owner:	er:			C	City:				;	M		1	3/4	.,,								
Project Name:	Project Name: Wrigley to Piper Pipeline	4			s)	State:		Zip:		es	5	(PI	n									
Project Locatio	Project Location: Lea County				ס	Phone #:	#			ric	01	E)	s T	atio	os	_							
Sampler Name: Matt Grieco	Matt Grieco				ज्ञ	Fax #:	Ï			nlo	18	3T	(a	C									
FOR LAB USE ONLY		-		MATRIX		P	PRESERV.	SAMPLING	ดี	Cł	PH	I	e	e									
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		TI		Т	Complet	o o i i pio								
114	EW13	G		<	-		<	12/4/19	08:31	1	1	<					\dashv				7	-	
24	EW14	G	_	<u> </u>			<	12/4/19	08:37	<	<	<					= 1				-		
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pp	SW2B	ດ	_	<			4	12/4/19	08:52	1	1	<			f	- 1							
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96	SW4	G	_	<			<	12/4/19	09:15	1	1	1								Ţ		-41	
47	SW5	G	_	<			<	12/5/19	09:30	1	<	4			i								
87	SW6B	G		<			<	12/5/19	08:05	1	4	4											
PLEASE NOTE: Liability a analyses, All claims includ service. In no event shall o affiliates or successors aris	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be labe for includental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hierarche by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	prany cla be deems fing without y Cardina	im aris ad waiv out limit	ing whether based in contr ved unless made in writing lation, business interruption indiess of whether such dai	actort and rec and rec	ort, sha eived to of use,	all be limited t by Cardinal w or loss of pro	o the amount paid ithin 30 days after offts incurred by cl	by the client for tompletion of the ient, its subsidiari	the e applications	o o					<u> </u>	11.1					-	L
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Relinquished By:	/	-/	ecei	Received By:	9	1)	email results	PS.	7												



December 16, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: WRIGLEY TO PIPER

Enclosed are the results of analyses for samples received by the laboratory on 12/10/19 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)

Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

A ... - L ... - - - I D. .. MC

Received:

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

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

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS17 (H904133-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	< 0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	93.8	% 41-142							
Surrogate: 1-Chlorooctadecane	98.6	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS18 (H904133-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	101 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	106 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS19 (H904133-03)

DILX GOZID	ıııg,	Ng .	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-129)						
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	104 %	% 41-142							
Surrogate: 1-Chlorooctadecane	109 9	37.6-147	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

ma/ka

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS20 (H904133-04)

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
<0.300	0.300	12/11/2019	ND					
99.0	% 73.3-12	9						
mg/	'kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1500	16.0	12/11/2019	ND	416	104	400	0.00	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
<10.0	10.0	12/11/2019	ND					
102 9	% 41-142	ı						
110 9	% 37.6-14	7						
-	<0.050 <0.050 <0.050 <0.150 <0.300 99.09 mg/ Result 1500 mg/ Result <10.0 <10.0 102.9	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 99.0 % 73.3-12 mg/kg Result Reporting Limit 1500 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS21 (H904133-05)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	97.0	% 41-142	•						
Surrogate: 1-Chlorooctadecane	102 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS22 (H904133-06)

B1EX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5160	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	97.0	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	104 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS23 (H904133-07)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-129	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	177	88.5	200	9.44	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	181	90.4	200	9.81	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	99.1	% 41-142							
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/10/2019

Sampling Date:

12/06/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS24 (H904133-08)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2019	ND	1.92	95.9	2.00	1.51	
Toluene*	<0.050	0.050	12/11/2019	ND	1.87	93.7	2.00	1.50	
Ethylbenzene*	<0.050	0.050	12/11/2019	ND	1.91	95.6	2.00	1.10	
Total Xylenes*	<0.150	0.150	12/11/2019	ND	5.80	96.7	6.00	0.950	
Total BTEX	<0.300	0.300	12/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	81.1	% 41-142							
Surrogate: 1-Chlorooctadecane	83.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS25 (H904133-09)

DILX GOZID	1119/	- Kg	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	82.6	% 41-142							
Surrogate: 1-Chlorooctadecane	84.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 12/10/2019 Reported:

Project Name: WRIGLEY TO PIPER

Project Number:

Project Location:

12/16/2019

11488 GOODNIGHT MIDSTREAM - LEA CO NM Sampling Date: 12/09/2019

Sampling Type: Soil Sampling Condition: Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: FS26 (H904133-10)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	82.1	% 41-142							
Surrogate: 1-Chlorooctadecane	83.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

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

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS27 (H904133-11)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	< 0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1980	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	83.6	% 41-142							
Surrogate: 1-Chlorooctadecane	85.4	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS28 (H904133-12)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	12/11/2019	ND	416	104	400	0.00	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	81.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	82.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

(575) 396-1429

Analyzed By: MC

Fax To:

Received: 12/10/2019 Reported: 12/16/2019

Project Name: WRIGLEY TO PIPER

Project Number: 11488

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

ma/ka

Sampling Date: 12/09/2019

Sampling Type: Soil

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

Sample ID: FS29 (H904133-13)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	83.1	% 41-142							
Surrogate: 1-Chlorooctadecane	85.0	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS30 (H904133-14)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	82.2	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	83.8	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS31 (H904133-15)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	86.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	88.4	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS32 (H904133-16)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	84.6	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	86.1	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS33 (H904133-17)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	83.2	% 41-142							
Surrogate: 1-Chlorooctadecane	83.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS34 (H904133-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	75.5 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	76.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS35 (H904133-19)

DIEX GOZID	11197	Ng .	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.3-129)						
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	75.6	% 41-142							
Surrogate: 1-Chlorooctadecane	76.7	% 37.6-147	7						

Cardinal Laboratories

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS36 (H904133-20)

B1EX 8021B	mg/	кg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	71.1	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	71.9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Freene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS37 (H904133-21)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	75.6	% 41-142							
Surrogate: 1-Chlorooctadecane	76.6	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS38 (H904133-22)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	77.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	77.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS39 (H904133-23)

B1EX 8021B	mg/	кg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	77.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	77.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

BTEX 8021B

WRIGLEY TO PIPER

mg/kg

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

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS40 (H904133-24)

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4520	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	74.6	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	76.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS41 (H904133-25)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	75.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	76.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Analyzed By: MS

Sample Received By: Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS42 (H904133-26)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	78.2	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	79.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Cool & Intact

Project Number:

11488

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS43 (H904133-27)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/11/2019	ND	165	82.6	200	19.1	
DRO >C10-C28*	<10.0	10.0	12/11/2019	ND	177	88.7	200	18.9	
EXT DRO >C28-C36	<10.0	10.0	12/11/2019	ND					
Surrogate: 1-Chlorooctane	77.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	79.4	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

RTFY 8021R

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Soil

Project Name:

WRIGLEY TO PIPER

ma/ka

Sampling Type:

Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

Project Number: Project Location: 11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS44 (H904133-28)

BIEX 8021B	mg/I	kg .	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	1.94	97.1	2.00	1.13	
Toluene*	<0.050	0.050	12/12/2019	ND	1.88	93.8	2.00	1.14	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	1.90	95.2	2.00	0.998	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.77	96.2	6.00	1.02	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8 %	6 73.3-129	9						
Chloride, SM4500CI-B	mg/l	кg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/l	кg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	85.3 %	6 41-142							
Surrogate: 1-Chlorooctadecane	87.0 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS45 (H904133-29)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	QR-03
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	QR-03
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	QR-03
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	QR-03
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	89.2 9	% 41-142							
Surrogate: 1-Chlorooctadecane	91.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS46 (H904133-30)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	89.1	% 41-142							
Surrogate: 1-Chlorooctadecane	90.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS47 (H904133-31)

		кд							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	88.1	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	91.3	% 37.6-14	7						

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Celey D. Kune



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

ma/ka

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW2 (H904133-32)

B1EX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	90.2 9	% 41-142							
Surrogate: 1-Chlorooctadecane	91.2 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019 12/16/2019 Sampling Date:

12/09/2019

Reported: Project Name:

WRIGLEY TO PIPER

Sampling Type:

Soil Cool & Intact

Project Number:

11488

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW3A (H904133-33)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	< 0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	< 0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	< 0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	91.49	6 41-142							
Surrogate: 1-Chlorooctadecane	92.9 9	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW4 (H904133-34)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	12/13/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/13/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/13/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/13/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	93.7 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	95.8 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

mg/kg

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW5A (H904133-35)

DIEX GOZID	11197	Ng .	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-129)						
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	91.9	% 41-142							
Surrogate: 1-Chlorooctadecane	92.0	2% 37.6-147	7						

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW6 (H904133-36)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	92.4 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	93.3 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received: Reported:

12/10/2019 12/16/2019 Sampling Date:

12/09/2019

Project Name:

Sampling Type:

Soil

RTFY 8021R

WRIGLEY TO PIPER

ma/ka

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

Project Number:

11488

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW7A (H904133-37)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	91.9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	93.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM Sample Received By:

Jodi Henson

Sample ID: NW8 (H904133-38)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/13/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/13/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/13/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	85.1 9	6 41-142							
Surrogate: 1-Chlorooctadecane	87.3 9	6 37.6-14	7						

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*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW15B (H904133-39)

B1EX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	< 0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	86.5	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	87.5	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW7C (H904133-40)

DILX GOZID	11197	, kg	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	89.6	% 41-142	•						
Surrogate: 1-Chlorooctadecane	90.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

RTFY 8021R

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

11488

Applyzod By: MC

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW8 (H904133-41)

B1EX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/13/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/13/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/13/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	94.6	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	94.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

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

Project Number: Project Location: 11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW9 (H904133-42)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	87.69	% 41-142	!						
Surrogate: 1-Chlorooctadecane	88.3 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW13 (H904133-43)

B1EX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	92.3 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	92.4 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/10/2019

Sampling Date:

12/09/2019

Reported:

12/16/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

ma/ka

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

Project Number:

RTFY 8021R

11488

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: WW14 (H904133-44)

	mg/			а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	92.0 9	% 41-142							
Surrogate: 1-Chlorooctadecane	92.1 9	37.6-14	7						

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	Goodnight Midstream			BILL :	BILL TO				Н	AN	ALY	is F	ANALYSIS REQUEST
Project Manager:	-			P.O. #:			-	\dashv	\dashv	\dashv	\dashv	\dashv	
Address:				Company: Etech	tech		_	_	_	_	5	_	
City:	State:	Zip:		Attn:				_	_	<u></u>	OH		_
Phone #:	Fax #:			Address:			-	_		ni	VI II		
Project #: 11488	Project Owner:	ner:		City:			_	IVI	_	-	5/1-	_	
Project Name: Wrigley to Piper	Vrigley to Piper			State:	Zip:		les	5	PI	_			
Project Location: Lea County	: Lea County			Phone #:			_	E)	_	_	DS		
Sampler Name: Matt Grieco	Matt Grieco			Fax #:					_	_			
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING		_	-	-	-			
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	- 05-	11	т	Complete	Complete		
1	FS17	4	<u> </u>	<	12/6/19			1	+	+	+	+	
2	FS18	G 1	<	<u> </u>	12/6/19		<	`	-	+		+	
3	FS19	G 1	•	•	12/6/19		`		1	+	+		
4 4	FS20	G 1	< -	<u> </u>	12/6/19			`			+		
Cr	FS21	G 1	<u> </u>	~	12/6/19		<u> </u>	_	7		1	+	
6	FS22	G 1	<u> </u>	<	12/6/19		1	_					
	FS23	G 1	< -	<u> </u>	12/6/19								
ds	FS24	G 1	\ 	<u> </u>	12/6/19	•		_			1		
9	FS25	G 1	•	•	12/9/19		-	`		1	1	1	
10 F	FS26	G 1	•	<u> </u>	12/9/19				1	+	7	+	
LEASE NOTE: Liability and valyses. All claims including invice. In no event shall Caro filiates or successors arising	Damages. Cardinal's liability and cli- bose for negligance and any other of final be liable for incidental or conse- out of or related to the performance	or any claim arising whe be deemed waived unle ding without limitation, b y Cardinal, regardless o	ether based in contract less made in writing and uusiness interruptions, l of whether such claim in	ant's exclusive remedy for any claim arising whether based in contract or ton', shall be limited to the amount reases whatsoever shall be deemed verticed unless made in writing and reasived by Cardinal within 50 days a querical damages, including without limitation, business interruptions, loss of use, or loss of profits incurred of services hereunded by Cardinal, regardless of whether such claim is based upon any of the above stated	to the amount paid thin 30 days after offits incurred by cli- above stated reas	paid by the client for the flar completion of the ap y client, its subsidiaries, reasons or otherwise.	plicable				ŀ		
Relinquished By:	3	Received By:	By:	9119	_	Phone Result: Fax Result:	D Y	8 8	No No	Add	Add'l Phone #: Add'l Fax #:		
Alinquished Bu	y:	-	Ja	MANNE	1	REMARKS:							
Kelinquisned By:	Date:	Received By:	By:			email results	sults						

Sampler - UPS - Bus - Other: 0,90

去

Sample Condition
Cool Intact
Ves Pres
No No

pm@etechenv.com

Delivered By: (Circle One)

Time: Date: Relinquished By:

Date: Time:

Received By:

0

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes

No No

Add'l Phone #: Add'l Fax #:

email results

Relinquished By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Goodnight Midstream			BILL TO	0				,	NA	ANALYSIS REQUEST
Project Manager: Lance Crenshaw		P.O. #:	- 1					╛		
Address:		Comp	Company: Etech						s	
City: State:	Zip:	Attn:							on	
Phone #: Fax #:		Address:	SS:						ni	
Project #: 11488 Project	Project Owner:	City:			-	M		+	s/A	
Project Name: Wrigley to Piper		State:	Zip:		es	5	(PI	ons	
Project Location: Lea County		Phone #:			ric	01	E	s T	atio	os
Sampler Name: Matt Grieco		Fax #:			ılo	8	3T	as	Ca	T
FOR LAB USE ONLY		MATRIX PR	PRESERV. SAM	SAMPLING	Cr	7	E	ex	е	
Lab I.D. Sample I.D.	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER VASTEWATER	SOIL SLUDGE DTHER:	DEFCOOL DITHER:			T		1	Complet	
FS27	-	<	_		\	^	`		\perp	
12 FS28	G 1	<	12/9/19	9	<	١	<			
13 FS29	G 1	<	12/9/19	9	`	`	<			
14 FS30	G 1	< -	12/9/19	9	<	٠	٠			
15 FS31	G 1	< -	12/9/19	9	<	^	٠			
16 FS32	G 1	< -	12/9/19	9	۸	٠	١			
[7] FS33	G 1	< -	12/9/19	9	<	٠	۲			
18 FS34	G 1	`	12/9/19	9	<	4	<			
9 FS35	G 1	< -	12/9/19	9	<	1	١			
26 FS36	G 1	< -	12/9/19	9	`	<	^			

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

#97

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:

pm@etechenv.com

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824 (505) 393-2326 FAX (505) 393-247

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

lanager: Lance Crenshaw	Zip:		r: Etech		-				ons			- 1	
	Zip:	Company: Attn:	Etech						ons		_	_	
	Zip:	Attn:					_		וכ	,	_		
								-	IIC		_		
Phone #:		Address:					_	_	Ar	_	_	_	
Project #: 11488 Project Owner:	wner:	City:			_	IVI	1.1		s/	_	_	_	
rigley to Piper		State:	Zip:	des	_		_			5			
Project Location: Lea County		Phone #:		orie	-		ΓE			DS	_		
Sampler Name: Matt Grieco		Fax #:		hl	_	_	_	_	_	1			
FOR LAB USE ONLY		MATRIX PRESERV	RV. SAMPLING		PH	_	_	Те	ete				
Lab I.D. Sample I.D.	G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER: ACID/BASE:	DATE	TIME	-				Comple				
7 5077	_ ;	<	12/9/19		_		`						
	61	` ~	12/9/19	4	1	16		-					
23 FS39	G 1 🗸		12/9/19	~		1	_						
_	G 1 🗸	\ \	12/9/19	~	1			-	-				
2.	G 1 🗸	` ~	12/9/19	1	-	1		-					
o .	G 1 🗸	`	12/9/19		-	`	_	-					
20 FS43	G 1 🗸	`	12/9/19		-		-	-				-	
25 FS44	G 1 V	`	12/9/19		-	-	<	-					
29 FS45	6 1		12/9/19		`	-	1	+	-	-			
30 FS46	G 1 V		15	hu the client for the	E		F	L	L	L	L	L	
E: Liability and Demages: Cardinal's liability and cli laims: Including those for negligence and any other event shall Cerdinal be liable for incidental or const	ent's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within ; upuestal damagas, including without limitation, business interruptions, loss of use, or loss of profits in of sendorse hearunche by Cardinal repartitiess of whether such claim is based upon any of the abor.	ed in contract or tort, shall be lint in writing and received by Cardi interruptions, loss of use, or loss or such claim is based upon any	shall be limited to the amount paid by the client for the sed by Cardinal within 30 days after completion of the a use, or loss of profits incured by client, its subsidiaries d upon any of the above stalled reasons or otherwise.	count paid by the client for the days after completion of the ap med by client, its subsidiaries, stated reasons or otherwise.	plicable								
Relinquished By: Relinquished By: Time:	Received By:	8	201	Phone Result: Fax Result: REMARKS:		☐ Yes	12 E3 No No		Add'l Phone #: Add'l Fax #:	x #:			
Relinquished By: Date:	Received By:	D		email results	sult	Ų)							
Time:	•			and other or one									
Delivered By: (Circle One)	Sample Condi	tion	CHECKED BY:			1	3						

Sampler - UPS - Bus - Other: D. 90

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2320 FAA (503) 393-2470		2) 0/ 3-/ 00	(323) 613-1001 170 (323)613 1828	-		١	١	ı		٤l	SISA IVNV		REQUEST	TS.	
ompany Name: Goodnight Midstream				DILL 10		1	4	1],	1	7			-	-
roject Manager: Lance Crenshaw			P.O. #:			_	_								
ddress:			Company: Etech	tech						ns					
ity: State:	Zip:		Attn:			_				nio					
hone #: Fax #:			Address:			_			Ċ.	Ar					
roject #: 11488 Project Owner:	Owner:		City:				M		Ή	ıs/					
rialey to Piper			State:	Zip:		de	15	X	TP	or	3				
Geo.			Phone #			_	0	Ε	s	ati	25			_	
roject Location: Lea County			Phone #:			_	8	3T	as	Ca	TE			_	
ampler Name: Matt Grieco			Fax #:			_	H	В	exa	9 (-			_	
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING		_	Р		Те	te				-	
Lab I.D. Sample I.D.	G)RAB OR (C)OMP,	GROUNDWATER WASTEWATER SOIL DIL	SLUDGE OTHER: ACID/BASE: CE / COOL OTHER:	DATE	TIME		T		1	Comple					
	_	V 5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	12/9/19		^	^	^						-	
NW2	G 1		<u> </u>	12/9/19		١	^	<						-	
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NWSA NWSA	G 1	\	<u> </u>	12/9/19		٠	١	4		П		+	-	+	
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29 WW15B	G 1	<	_	12/9/19		1					T	+	+	+	
40 SW7C	G 1	G 1	tract or lort, shall be limited	12/9/19	2/9/19 amount paid by the client for the	*	1	4			+	\vdash	+	-	-
Lability and Darrages, Cardinals auditing and cardinals including those for negligence and any other cause and shall Cardinal be liable for incidental or conseque yent shall Cardinal be liable for incidental or conseque	ver shall be deamed wait es, including without limit earder by Cardinal, rega	to whatsoever shall be dearmed waived unless made in writing and received by Cardinal within 30 days after completion of the a se whatsoever shall be dearmed waived unless made in writing and received by colors of profits incured by client, its subsidiaries and a days and the second profits of writing some state of the second profits and some stated easterns or otherwise.	ng and received by Cardinal within 30 days after completion of the tions, loss of use, or loss of profits incurred by client, its subsidiari claim is based upon any of the above stated reasons or otherwise	within 30 days afte profits incurred by a he above stated re	r completion of the ilent, its subsidiarions asons or otherwise	applicable ss.									
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Time:					nm@e	toch	ANA	3	3						
Delivered By: (Circle One)	-			CHECKED BY:	bill@etechenv.com	5	2	5	-						
00 1170	7° #97	Cool Intact		A Community											

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824 (505) 393-2326 FAX (505) 393-247

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

	(505) 393-2326 FAX (505) 393-2476	476		Ĭ	15	15	13	18	15	43	Ľ	5	U	ı۱٥	15	(325) 673-7001 FAX (325)673-7020		ı	1	ı	1				PEOLIEST	2	πl	ß	7	١		
Company Name:	Goodnight Midstream									-				10	IS	BILL TO		1		1	1		ANALISIS	- 1	Jŕ	18	IF	70	1	4	-	1
Project Manager:	-									-	P.O. #:	#	1.4	1	1									_				_		_		
Address:										+	0	킁	an	Y.	田田	Company: Etech						ns	110									_
City:	State:	Zip:	Ö		1	1				+	Attn:	13		110								nio	110									_
Phone #:	Fax #:									-	Address:	급	SS						1			_	/ (1	_								_
Project #: 11488	8 Project Owner:	er.								_	City:	*						s	N		'n		13/							_		
Project Name: Wrigley to Piper										-	State:	6	F		del	Zip:		de	15	X	TP		_	_								_
Project Location: Lea County	: Lea County										Phone #:	9	#					ori	80	ГЕ	_	_	D	0				_			_	_
Cample Name:	Wat Circo										Fax #:	#	••					nlo	1	B	_			1								
Sampler Name: Matt Grieco	Matt Grieco	Н	-	-	1		MATRIX	됬	×	ı,		PR	PRESERV	쮸	<	SAMPLING	G	Cl	Pŀ		_	_	ıc	-								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS		GROUNDWATER	WASTEWATER	SOIL	OIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	ICE / COOL	OTHER	DATE	TIME		TI		Т	Complet	Comple	F								
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44	WW14	10	ရ	-			1	1	-				1			12/9/19		<	-	-			++					++				
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PLEASE NOTE: Liability a analyses. All claims: includi service. In no event shall C	bility and client's exclusive d any other cause whatsoe ntal or consequental damag	for any be dee	med hout	arisin vaive imite	d un di	ess i	ness .	10 5 d	8 69	ons,	of to	5 6 6	by of	loss in	of p	ntract or tort, shall be limited to the amount paid by the client for thing and received by Cardinel within 30 days after completion of the tors, loss of law, or loss of profits incurred by client, its suberidient licent, loss of hand or not of the above staffed response or of thereby sinn in hand unon any of the above staffed response or of the above.	d by the client for completion of the client, its subsidial asons or otherwite	rthe he applica aries,	able													
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December 17, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: WRIGLEY TO PIPER

Enclosed are the results of analyses for samples received by the laboratory on 12/11/19 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2 H

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

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

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS48 (H904154-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	90.2	% 41-142	!						
Surrogate: 1-Chlorooctadecane	88.7	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Applyzod By: MC

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

ma/ka

Sampling Type:

Soil

Project Name:

RTFY 8021R

WRIGLEY TO PIPER

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

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS49 (H904154-02)

		кд		а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	12/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	92.5 9	% 41-142							
Surrogate: 1-Chlorooctadecane	92.2 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS50 (H904154-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	93.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.2	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS51 (H904154-04)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	12/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	98.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.1	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS52 (H904154-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	12/16/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	96.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.5	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

RTFY 8021R

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

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

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS53 (H904154-06)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	92.8	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	96.6	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS54 (H904154-07)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	83.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	82.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/11/2019 12/17/2019 Sampling Date:

12/10/2019

Reported:

ma/ka

Sampling Type:

Soil

Project Name:

RTFY 8021R

WRIGLEY TO PIPER

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

Project Number: Project Location:

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS55 (H904154-08)

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<0.050	0.050	12/16/2019	ND	1.79	89.6	2.00	11.3		
<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8		
<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3		
<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5		
<0.300	0.300	12/16/2019	ND						
101 9	% 73.3-12	9							
mg/	kg	Analyze	d By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
128	16.0	12/16/2019	ND	416	104	400	3.77		
mg/	'kg	Analyze	d By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5		
<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4		
<10.0	10.0	12/12/2019	ND						
87.6	% 41-142	,							
86.2	% 37.6-14	7							
-	<0.050 <0.050 <0.050 <0.150 <0.300 101 9 mg/ Result 128 mg/ Result <10.0 <10.0 <87.6 9	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 To a state of the process o	<0.050	<0.050	<0.050	<0.050	<td><0.050</td> 0.050 12/16/2019 ND 1.79 89.6 2.00 <0.050	<0.050	<0.050

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS56 (H904154-09)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	96.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

ma/ka

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

Project Number: Project Location:

RTFY 8021R

11488

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS57 (H904154-10)

B1EX 8021B	mg/	кд	Analyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-129	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	93.0	% 41-142							
Surrogate: 1-Chlorooctadecane	89.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS58 (H904154-11)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	92.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS59 (H904154-12)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-129	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	91.0	% 41-142							
Surrogate: 1-Chlorooctadecane	87.7	% 37.6-14	7						

Cardinal Laboratories

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS60 (H904154-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/14/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	88.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	84.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS61 (H904154-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/12/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	98.0 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	97.9 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW9A (H904154-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	170	84.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	171	85.7	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	94.8 9	% 41-142							
Surrogate: 1-Chlorooctadecane	92.79	% 37.6-14	7						

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Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW10 (H904154-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.79	89.6	2.00	11.3	
Toluene*	<0.050	0.050	12/16/2019	ND	1.77	88.3	2.00	11.8	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.79	89.3	2.00	12.3	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.22	87.0	6.00	11.5	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	71.7 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	73.1 9	% 37.6-14	7						

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Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Cool & Intact

Project Number:

11488

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW11B (H904154-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.76	88.2	2.00	12.6	QR-03
Toluene*	<0.050	0.050	12/14/2019	ND	1.73	86.7	2.00	17.5	QR-03, QM-07
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.75	87.7	2.00	16.0	QR-03, QM-07
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.08	84.7	6.00	16.0	QR-03, QM-07
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	76.5	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	78.2 9	% 37.6-14	7						

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Analytical Results For:

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Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW12 (H904154-18)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/14/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	79.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	81.5	% 37.6-14	7						

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Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Soil

Project Name:

Sampling Type:

Cool & Intact

Project Number:

WRIGLEY TO PIPER 11488

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW13 (H904154-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/14/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	78.8 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	80.99	37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

mg/kg

Cool & Intact

Project Number:

11488

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW14 (H904154-20)

	9,	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/14/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	78.6	% 41-142							
Surrogate: 1-Chlorooctadecane	80.2	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW10 (H904154-21)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/16/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	75.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	77.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW11A (H904154-22)

BIEX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/14/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	<0.050	0.050	12/14/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	80.3	% 41-142							
Surrogate: 1-Chlorooctadecane	81.7	% 37.6-14	7						

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW12 (H904154-23)

BIEX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/16/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	<0.050	0.050	12/16/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/16/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	77.9	% 41-142							
Surrogate: 1-Chlorooctadecane	79.2	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/11/2019

Sampling Date:

12/10/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488

Sample Received By:

Jodi Henson

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW13 (H904154-24)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2019	ND	1.76	88.2	2.00	12.6	
Toluene*	<0.050	0.050	12/14/2019	ND	1.73	86.7	2.00	17.5	
Ethylbenzene*	< 0.050	0.050	12/14/2019	ND	1.75	87.7	2.00	16.0	
Total Xylenes*	<0.150	0.150	12/14/2019	ND	5.08	84.7	6.00	16.0	
Total BTEX	<0.300	0.300	12/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/16/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2019	ND	212	106	200	1.12	
DRO >C10-C28*	<10.0	10.0	12/13/2019	ND	231	116	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	12/13/2019	ND					
Surrogate: 1-Chlorooctane	76.2 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	78.4	% 37.6-14	7						

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Celeg D. Keene



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celeg D. Freene

Relinquished By:

FS53 FS52 FS51 FS50 FS49

FS55 FS54

within 30 days after completion of the ap rofits incurred by client, its subsidiaries,

Phone Result: Fax Result: REMARKS:

Yes

D 5 No

email results

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Nam	(Co
Company Name:	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824 (505) 393-2326 FAX (505) 393-241

76 2111 Beechwood, Abilene, TX 79603

Phone #: Project Manager: Project Location: Lea County Project Name: Wrigley to Piper Pipeline Project #: 11488 Sampler Name: Matt Grieco Address: Lab I.D. Lance Crenshaw Sample I.D Fax #: Project Owner: State: (325) 673-7001 FAX (325)673-7020 MATRIX P.O. #: State: Attn: Company: Etech Phone #: Address: PRESERV BILL TO SAMPLING Chlorides TPH 8015 M **BTEX** Texas TPH ANALYSIS Complete Cations/Anions TDS REQUEST

ω (G)RAB OR (C)OMP 0 0 0 0 G 0 0 0 # CONTAINERS GROUNDWATER WASTEWATER SOIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER 12/10/19 12/10/19 12/10/19 12/10/19 12/10/19 12/10/19 12/10/19 12/10/19 12/10/19 DATE TIME

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 Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 	
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Sample Condition
Cool Intact
Yes Yes
No No

pm@etechenv.com

Sampler - UPS

Bus - Other:

Delivered By: (Circle One)

Time:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

	(505) 393-2326 FAX (505) 393-2410		100	(323) 613-1001 FAX (323)013-1020	9	13	1:	13	1	12/	0 3	318	75		1	1	١	١	₽	ANALYSIS	SIS	_	REQUEST	岚	۲į	-				
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PLEASE NOTE: Liability analyses. All claims incluses service. In no event shall	PLEASE NOTE: Lability and Damagas. Captinat's lability and clerifs actualve mimody for any clem ansing writing cleared in conteau or any case, or an actual process of the applicable analyses. At claims including those for negligence and any other cause whatever their be deemed without or waited in writing and membed by Calonial within 30 days after completion of the applicable analyses. At claims including those for negligence and any other causes whatever their be deemed without makes interruptions, loss of use, or loss of profits incurred by clein, its substitutions, the substitution of the applicable and the substitution of the sub	s exclusive remedy for any claim assing whether cased in correct or any size se whatsoever shall be deemed waived unless made in writing and trestwad by intal damages, including without limitation, business intemptions, loss of use, intal damages, including without limitation, business intemptions, loss of the second up.	waive	d unie	usiner b	de in	writing writing which	and n	CBIVE S of U	d by C	andin loss o	f profi	in opriesor or lart, axias los missos or una accessor per expelsión of the a writing and received by Cardinal within 30 days after completion of the a moptions. loss of use, or loss of profits incurred by claim, its subsidiaries un troptions, loss of use, or loss of profits incurred by claim, its subsidiaries with claim is hased upon any of the above stated reasons or otherwise.	completion of the ent, its subsidia sons or otherwise	ne applica	ble														
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824 (505) 393-2326 FAX (505) 393-247

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Delivered By:		Relinquished By:	Relinquished By:	affiliates or successors arising out of or related to the	PLEASE NOTE: Liability and Damages: Cardinal's liability analyses. All claims: including those for regigence and a analyses. All claims: what Cardinal he liabile for incidental						23	22 8	21 8	-42HO1+	Lab I.D.	EOD I AR LISE ONLY	Sampler Name: Matt Grieco	Project Location: Lea County	Project Name: Wi	Project #: 11488	Phone #:	City:	Address:	Project Manager:	Company Name:	
Delivered By: (Circle One) 2/0/-1/12 #47 Cool Intact Sampler - UPS - Bus - Other: 2/0/-1/12 #47 Tess Pres	710		h	formanos	ty and cli ny other or conse					SW13	SW12	SW11A	SW10		Sample I.D.		latt Grieco	Lea County	Project Name: Wrigley to Piper Pipeline	Proj	Fax #:	State:		Lance Crenshaw	Goodnight Midstream	(505) 393-2326 FAX (505) 393-2476
1-1.	Time:	Date:	いいこと	services hereunder by Cardinal, regardless of whether	lusive remedy f hatsoever shall damages, inclu															Project Owner:	#	te:				5) 393-2
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December 19, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: WRIGLEY TO PIPER

Enclosed are the results of analyses for samples received by the laboratory on 12/13/19 15:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

Method EPA 552.2 Ha

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By MC

Received:

12/13/2019

Sampling Date:

12/11/2019

Reported:

DTEV 0021D

12/19/2019

ma/ka

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

11488 PIPELINE

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 62A (H904184-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2019	ND	1.83	91.4	2.00	9.80	
Toluene*	<0.050	0.050	12/17/2019	ND	1.79	89.7	2.00	10.8	
Ethylbenzene*	<0.050	0.050	12/17/2019	ND	1.82	91.2	2.00	10.3	
Total Xylenes*	<0.150	0.150	12/17/2019	ND	5.29	88.2	6.00	10.4	
Total BTEX	<0.300	0.300	12/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/16/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/16/2019	ND					
Surrogate: 1-Chlorooctane	75.8	% 41-142							
Surrogate: 1-Chlorooctadecane	80.2	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 63 (H904184-02)

BIEX 8021B	mg/	кg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2019	ND	1.99	99.3	2.00	7.30	
Toluene*	<0.050	0.050	12/17/2019	ND	1.98	98.9	2.00	6.84	
Ethylbenzene*	<0.050	0.050	12/17/2019	ND	2.00	100	2.00	7.58	
Total Xylenes*	<0.150	0.150	12/17/2019	ND	5.84	97.3	6.00	7.66	
Total BTEX	<0.300	0.300	12/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/16/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/16/2019	ND					
Surrogate: 1-Chlorooctane	76.7	% 41-142	•						
Surrogate: 1-Chlorooctadecane	81.9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 64 (H904184-03)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2019	ND	1.99	99.3	2.00	7.30	
Toluene*	<0.050	0.050	12/17/2019	ND	1.98	98.9	2.00	6.84	
Ethylbenzene*	<0.050	0.050	12/17/2019	ND	2.00	100	2.00	7.58	
Total Xylenes*	<0.150	0.150	12/17/2019	ND	5.84	97.3	6.00	7.66	
Total BTEX	<0.300	0.300	12/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/16/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/16/2019	ND					
Surrogate: 1-Chlorooctane	73.1	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	75.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 65 (H904184-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/17/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/17/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/17/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/16/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/16/2019	ND					
Surrogate: 1-Chlorooctane	77.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	80.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 66 (H904184-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/17/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/17/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/17/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/16/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/16/2019	ND					
Surrogate: 1-Chlorooctane	70.2 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	73.3 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

11488 PIPELINE

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 67 (H904184-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/17/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/17/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/17/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/16/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/16/2019	ND					
Surrogate: 1-Chlorooctane	76.7	% 41-142	1						
Surrogate: 1-Chlorooctadecane	80.5	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 68 (H904184-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/17/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/17/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/17/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/16/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/16/2019	ND					
Surrogate: 1-Chlorooctane	74.9	% 41-142							
Surrogate: 1-Chlorooctadecane	79.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

11488 PIPELINE

ma/ka

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 69 (H904184-08)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/17/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/17/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/17/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	75.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	81.1	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 70A (H904184-09)

BIEX 8021B	mg/l	kg	Anaiyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/17/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/17/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/17/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	76.8 %	6 41-142							
Surrogate: 1-Chlorooctadecane	79.2 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number:

11488 PIPELINE

ma/ka

Analyzed By: MC

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 71 (H904184-10)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/17/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/17/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/17/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	72.3	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	75.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 72 (H904184-11)

Result	Reporting Limit	Analyzed							
٠٥ ٥٢٥		Allalyzeu	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<0.050	0.050	12/17/2019	ND	1.89	94.6	2.00	7.44		
<0.050	0.050	12/17/2019	ND	1.88	94.1	2.00	6.66		
<0.050	0.050	12/17/2019	ND	1.91	95.5	2.00	6.27		
<0.150	0.150	12/17/2019	ND	5.75	95.8	6.00	5.67		
<0.300	0.300	12/17/2019	ND						
95.6	% 73.3-12	9							
mg/	'kg	Analyze	d By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
32.0	16.0	12/16/2019	ND	400	100	400	3.92		
mg/	/kg	Analyze	d By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<10.0	10.0	12/17/2019	ND	210	105	200	0.313		
<10.0	10.0	12/17/2019	ND	221	111	200	0.901		
<10.0	10.0	12/17/2019	ND						
72.9	% 41-142	ı							
77.2	% 37.6-14	7							
	<0.050 <0.150 <0.300 95.6 mg/ Result 32.0 mg/ Result <10.0 <10.0 72.9	<0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 95.6 % 73.3-12 mg/kg Result Reporting Limit 32.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0	<0.050 0.050 12/17/2019	<0.050	<0.050	<td><0.050</td> 12/17/2019 ND 1.88 94.1 <0.050 0.050 12/17/2019 ND 1.91 95.5 <0.150 0.150 12/17/2019 ND 5.75 95.8 <0.300 0.300 12/17/2019 ND ************************************ <td><0.050</td> 12/17/2019 ND 1.88 94.1 2.00 <0.050 0.050 12/17/2019 ND 1.91 95.5 2.00 <0.150 0.150 12/17/2019 ND 5.75 95.8 6.00 95.6 ⅓ 73.3-129 Method Blank BS % Recovery True Value QC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 32.0 16.0 12/16/2019 ND 400 100 400 Method Blank BS % Recovery True Value QC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0 10.0 12/17/2019 ND 210 105 200 <10.0 10.0 12/17/2019 ND 221 111 200 10.0 12/17/2019 ND 221 111 200 10.0 12/17/2019 ND 21 11 <td><0.050</td> 0.050 12/17/2019 ND 1.88 94.1 2.00 6.66 <0.050 0.050 12/17/2019 ND 1.91 95.5 2.00 6.27 <0.150 0.150 12/17/2019 ND 5.75 95.8 6.00 5.67 95.6 ⅓ 73.3-129 Mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 32.0 16.0 12/16/2019 ND 400 100 400 400 3.92 Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0 10.0 12/17/2019 ND 210 105 200 0.313 0.313 <10.0 10.0 12/17/2019 ND 221 1111 200 0.901 <10.0 10.0 12/17/2019 ND ND 221 1111 200 0.901 72.9 ⅓ 41-142	<0.050	<0.050	<0.050

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

BTEX 8021B

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Condition:

Cool & Intact

Project Number: Project Location:

11488 PIPELINE

mg/kg

79.1 %

37.6-147

Sample Received By:

Tamara Oldaker

Sample ID: FS 73 (H904184-12)

		9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/17/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/17/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/17/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	75.5 9	% 41-142							

Analyzed By: MS

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Surrogate: 1-Chlorooctadecane

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 74B (H904184-13)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/17/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/17/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/17/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	71.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	73.0	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 75A (H904184-14)

DIEX GOZID	11197	Kg .	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/17/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/17/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/17/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 73.3-129	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	78.0	% 41-142							
Surrogate: 1-Chlorooctadecane	83.0	2% 37.6-147	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 76 (H904184-15)

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	12/18/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	210	105	200	0.313	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	221	111	200	0.901	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	72.5 9	% 41-142							
Surrogate: 1-Chlorooctadecane	75.4 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: FS 77A (H904184-16)

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	12/18/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	75.7 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	77.6	37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

11488 PIPELINE

ma/ka

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 15 (H904184-17)

BIEX 8021B	mg/l	kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8 9	6 73.3-129	9						
Chloride, SM4500CI-B	mg/l	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	76.8 %	6 41-142							
Surrogate: 1-Chlorooctadecane	79.2 %	6 37.6-147	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 16A (H904184-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	77.5 %	6 41-142							
Surrogate: 1-Chlorooctadecane	78.4 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 17 (H904184-19)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	70.1	% 41-142							
Surrogate: 1-Chlorooctadecane	71.7	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 18 (H904184-20)

BIEX 8021B	mg/	кg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	73.9	% 41-142	•						
Surrogate: 1-Chlorooctadecane	76.1	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 19 (H904184-21)

BIEX 8021B	mg/	кg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	77.8	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	82.5	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 20A (H904184-22)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	72.4	% 41-142							
Surrogate: 1-Chlorooctadecane	74.2	% 37.6-14	7						

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Celey D. Kune



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 21 (H904184-23)

BIEX 8021B	mg/	kg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.89	94.6	2.00	7.44	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	94.1	2.00	6.66	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.75	95.8	6.00	5.67	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1 %	6 73.3-129	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	82.1 %	6 41-142							
Surrogate: 1-Chlorooctadecane	88.3 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 22 (H904184-24)

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	QR-03
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	73.1	% 41-142							
Surrogate: 1-Chlorooctadecane	75.4	% 37.6-14	7						

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 23A (H904184-25)

	<u> </u>	<u> </u>							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2019	ND	400	100	400	3.92	
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	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	76.9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	80.5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location: 11488 PIPELINE

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 24 (H904184-26)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	80.4	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	82.6	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Soil Cool & Intact

Project Number:

11488 PIPELINE

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 25 (H904184-27)

DILX GOZID	ıııg,	Ng .	Alluly2cu by: 1-15						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 73.3-129)						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2019	ND	400	100	400	3.92	
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	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	83.2	% 41-142							
Surrogate: 1-Chlorooctadecane	89.7	% 37.6-147	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

11488 PIPELINE

mg/kg

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 26 (H904184-28)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/16/2019	ND	400	100	400	3.92	
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	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	83.2	% 41-142							
Surrogate: 1-Chlorooctadecane	87.6	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Project Name:

ma/ka

Sampling Type:

Soil

Project Number:

WRIGLEY TO PIPER 11488 PIPELINE

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 27 (H904184-29)

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 73.3-129	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	83.0 9	% 41-142							
Surrogate: 1-Chlorooctadecane	85.8 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 28A (H904184-30)

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	82.0 9	% 41-142							
Surrogate: 1-Chlorooctadecane	87.4 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

RTFY 8021R

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: NW 29 (H904184-31)

B1EX 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	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	400	100	400	3.92	
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	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	84.1	% 41-142	•						
Surrogate: 1-Chlorooctadecane	85.8	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/10/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 14A (H904184-32)

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	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	83.1 %	6 41-142							
Surrogate: 1-Chlorooctadecane	85.0 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

BTEX 8021B

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 15 (H904184-33)

	9,	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2019	ND	400	100	400	3.92	
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	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	77.4	% 41-142							
Surrogate: 1-Chlorooctadecane	79.6	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 16 (H904184-34)

B1EX 8021B	тд/кд		Anaiyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 73.3-129	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	80.2	% 41-142							
Surrogate: 1-Chlorooctadecane	83.3	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 17 (H904184-35)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	171	85.4	200	19.9	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	184	91.8	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	82.0 9	% 41-142							
Surrogate: 1-Chlorooctadecane	87.1 9	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 18 (H904184-36)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 73.3-129	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/16/2019	ND	400	100	400	3.92	
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	12/17/2019	ND	218	109	200	1.14	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	216	108	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	112 9	% 41-142							
Surrogate: 1-Chlorooctadecane	119 9	37.6-147	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 19A (H904184-37)

Result <0.050 <0.050 <0.050 <0.050 <0.150	0.050 0.050 0.050	Analyzed 12/18/2019 12/18/2019 12/18/2019	Method Blank ND ND	BS 1.90 1.91	% Recovery 95.0 95.6	True Value QC 2.00	RPD 6.35	Qualifier
<0.050 <0.050 <0.150	0.050 0.050	12/18/2019	ND				6.35	
<0.050 <0.150	0.050			1.91	05.6			
<0.150		12/18/2019			93.0	2.00	2.52	
	0.150		ND	1.95	97.5	2.00	2.47	
	0.130	12/18/2019	ND	5.88	98.0	6.00	1.23	
<0.300	0.300	12/18/2019	ND					
96.4	% 73.3-12	9						
mg,	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	16.0	12/16/2019	ND	400	100	400	3.92	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/17/2019	ND	218	109	200	1.14	
<10.0	10.0	12/17/2019	ND	216	108	200	1.00	
<10.0	10.0	12/17/2019	ND					
107	% 41-142	,						
111 9	% 37.6-14	7						
	<0.300 96.4 mg, Result 16.0 mg, Result <10.0 <10.0 <10.0	<0.300 96.4 % 73.3-12 mg/ky Result Reporting Limit 16.0 16.0 mg/ky Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 10.0 10.7 % 41-142	<0.150	<0.150 12/18/2019 ND 96.4 % 73.3-129 Tanalyzed By: AC Result Reporting Limit Analyzed By: MS 16.0 12/16/2019 ND mg/y Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0 10.0 12/17/2019 ND	<0.150	< 0.150 0.150 12/18/2019 ND 5.88 98.0 96.4 % 73.3-129 Mg/ky Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery 16.0 12/16/2019 ND 400 100 mg/ky Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0 10.0 12/17/2019 ND 218 109	< 0.150 12/18/2019 ND 5.88 98.0 6.00 96.4	<0.150

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 20 (H904184-38)

Result <0.050 <0.050 <0.050	Reporting Limit 0.050 0.050	Analyzed 12/18/2019 12/18/2019	Method Blank	BS 1.90	% Recovery	True Value QC	RPD	Qualifier
<0.050			ND	1.90	95 N			
	0.050	12/18/2019			23.0	2.00	6.35	
<0.050		,,,	ND	1.91	95.6	2.00	2.52	
	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
<0.300	0.300	12/18/2019	ND					
95.8	% 73.3-12	9						
mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	12/16/2019	ND	400	100	400	3.92	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/17/2019	ND	218	109	200	1.14	
<10.0	10.0	12/17/2019	ND	216	108	200	1.00	
<10.0	10.0	12/17/2019	ND					
109 5	% 41-142							
115 9	37.6-14	7						
	<0.150 <0.300 95.89 mg/ Result <16.0 mg/ Result <10.0 <10.0 <10.0	<0.050 0.050 <0.150 0.150 <0.300 0.300 95.8	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 21 (H904184-39)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 73.3-129	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	218	109	200	1.14	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	216	108	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	107	% 41-142							
Surrogate: 1-Chlorooctadecane	112 9	37.6-147	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MS

Received:

BTEX 8021B

12/13/2019

Sampling Date:

12/11/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 22 (H904184-40)

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 73.3-129	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	218	109	200	1.14	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	216	108	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142							
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 23 (H904184-41)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	218	109	200	1.14	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	216	108	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	108	% 41-142	•						
Surrogate: 1-Chlorooctadecane	113	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 24 (H904184-42)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	218	109	200	1.14	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	216	108	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	114 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	119 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location: 11488 PIPELINE

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 25 (H904184-43)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.90	95.0	2.00	6.35	
Toluene*	<0.050	0.050	12/18/2019	ND	1.91	95.6	2.00	2.52	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.95	97.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.88	98.0	6.00	1.23	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	218	109	200	1.14	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	216	108	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	124 %	6 41-142							
Surrogate: 1-Chlorooctadecane	130 %	6 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 12/13/2019 Reported:

12/19/2019 Project Name: WRIGLEY TO PIPER Project Number: 11488 PIPELINE

Project Location: GOODNIGHT MIDSTREAM - LEA CO NM Sampling Date: 12/12/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SW 26A (H904184-44)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.93	96.7	2.00	6.24	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	93.9	2.00	5.85	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.58	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.58	93.0	6.00	6.58	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	218	109	200	1.14	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	216	108	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	111 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	117	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 27 (H904184-45)

B1EX 8021B	mg/	kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.93	96.7	2.00	6.24	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	93.9	2.00	5.85	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.58	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.58	93.0	6.00	6.58	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0 9	6 73.3-129	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	218	109	200	1.14	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	216	108	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	117 %	6 41-142							
Surrogate: 1-Chlorooctadecane	124 %	6 37.6-14°	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Analyzed By: MC

Received:

RTFY 8021R

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 28 (H904184-46)

BIEX 8021B	mg/	кg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.93	96.7	2.00	6.24	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	93.9	2.00	5.85	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.58	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.58	93.0	6.00	6.58	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	218	109	200	1.14	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	216	108	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	103	% 41-142							
Surrogate: 1-Chlorooctadecane	108	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/13/2019

Sampling Date:

12/12/2019

Reported:

12/19/2019

Sampling Type:

Soil

Project Name:

WRIGLEY TO PIPER

Sampling Condition:

Cool & Intact

Project Number:

11488 PIPELINE

Sample Received By:

Tamara Oldaker

Project Location:

GOODNIGHT MIDSTREAM - LEA CO NM

Sample ID: SW 29A (H904184-47)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2019	ND	1.93	96.7	2.00	6.24	
Toluene*	<0.050	0.050	12/18/2019	ND	1.88	93.9	2.00	5.85	
Ethylbenzene*	<0.050	0.050	12/18/2019	ND	1.91	95.5	2.00	6.58	
Total Xylenes*	<0.150	0.150	12/18/2019	ND	5.58	93.0	6.00	6.58	
Total BTEX	<0.300	0.300	12/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/17/2019	ND	218	109	200	1.14	
DRO >C10-C28*	<10.0	10.0	12/17/2019	ND	216	108	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	12/17/2019	ND					
Surrogate: 1-Chlorooctane	108 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	113 %	6 37.6-14	7						

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

*** 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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINA 101 Eas

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	e: Goodnight Midstream			BILL TO	0				A	ANALYSIS		REQ	REQUEST	
Project Manager:	-			P.O. #:				4				4		
Address:				Company: Etech						S		_		
City:	State:	Zip:		Attn:						or				
Phone #:	Fax #:			Address:						۱ni				
Project #: 11488	38 Project Owner:	wner:		City:		3	M		Н	s//				
Project Name:	Project Name: Wrigley to Piper Pipeline			State: Zip:		les	15		ГР		5			
Project Location:	on:			Phone #:		ric	30	E	s ī	_	DS.			
Sampler Name:	: Lance Crenshaw			Fax #:		nlo	1 E	_	ka		TI			
FOR LAB USE ONLY		2.	MATRIX	ESERV.	SAMPLING	Cł	Ph		Гех	te				
Lab I.D.	Sample I.D.	S)RAB OR (C)OME	ROUNDWATER VASTEWATER OIL IL LUDGE	THER: CID/BASE: EE/COOL THER:			Т			Comple				
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4	FS65	<u>ଜ</u> -	7,	V 12/11/19	/19	<	<	4						
0	FS66	<u> </u>	7	V 12/11/19	/19	<	4	4						
6	FS67	G -	, <	V 12/11/19	/19	4	4	4						
· ·	FS68	<u>െ</u>	7,	V 12/11/19	/19	<	4	<						
00	FS69	<i>െ</i>	<	U 12/11/19	/19	<	<	<						
7	FS70A	<u></u>	ν,	12/12/19	/19	4	4	<						
10	FS71	1 3	ζ	V 12/12/19	/19	<	4	1					3	
PLEASE NOTE: Liability analyses. All claims inclu service. In no event shall affiliates or successors an	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tot, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within 30 days after competion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without inhitiation, business interruptions, loss of use, or loss of profits incurred by prieficial entires, so the consequent and the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	edy for any claim arising shall be deemed walved ncluding without limitatio der by Cardinal, regardle	whether based in contract unless made in writing and in, business interruptions, as of whether such claim is	t or tort, shall be limited to the amo d received by Cardinal within 30 da- loss of use, or loss of profits incurre is based upon any of the above sta	unt paid by the client for ys after completion of the ed by client, its subsidiant ted reasons or otherwis	the reapplicabl ries,	o							
Relinquished By:	By: Date: 12	A Received By:	d By:	Mille	Phone Result: Fax Result: REMARKS:	H.	□ Yes	5 5	No A	Add'l Phone Add'l Fax #:	Add'l Phone #: Add'l Fax #:			
Relinquished By:		Received By:	d By:		email results	resul	ts							
	Time:				7	1		2						
Delivered By	Delivered By: (Circle One)	107	Sample Condition	ion CHECKED BY:	prin@electionv.	Hech	env	COIT						

Sampler - UPS - Bus - Other:

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Date: Time:

Received By:

Relinquished By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDIN 101 E

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: Goodnight Midstream	äm		BIL	BILL TO					AN	ANALYSIS		REQUEST	ST	
Project Manager: Lance Crenshaw		פי	P.O. #:					-		\dashv	- 1			
Address:		0	Company: Etech	ch						3				
City:	State: Zip:	Þ	Attn:					_	ior	OI.				
Phone #:	Fax #:	Þ	Address:					H	Δn	Al I				
Project #: 11488	Project Owner:	0	City:			100	IVI	Н		SIT				
Project Name: Wrigley to Piper Pipeline	eline	S	State: Z	Zip:	100	_								
Project Location:		ס	Phone #:		oric	30	E	s 7		DS				
Sampler Name: Lance Crenshaw		T	Fax #:		alc	_	-	_		-	i di			
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING		*	-	_	-	C				
	RS	ER				_	1.1	Т	nplet	ipiet				
Lab I.D. Sample I.D.)RAB OR (CONTAINE	ASTEWATE DIL L UDGE	HER: ID/BASE: E/COOL HER:						Com	COII				
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13 FS74B	G 1	<	< ·	12/12/19	4									
14 FS75A	6 1	<	<	12/12/19	4		_							
15 FS76	G 1	<	<	12/12/19	٠,	4	,							
16 FS77A	6 1	<	<	12/12/19	4		•			H				
17 NW15	6 1	<	<	12/11/19	4	1	_							
18 NW16A	G 1	<	<	12/11/19	4	1	~		H					
19 NW17	G 1	<	<	12/11/19	4		_							
26 NW18	G 1	<u> </u>	√	12/11/19	- V		` •	_						
2 2 2	dient's exclusive remedy for any claim arising y ner cause whatsoever shall be deemed waived u resequental damages, including without limitation noe of services hereunder by Gardinal repardie.	whether based in contract or unless made in writing and re n, business interruptions, loss as of whether such claim is b	tort, shall be limited to ceived by Cardinal with s of use, or loss of prof sased upon any of the s	the amount paid by hin 30 days after co its incurred by clien above stated reason	the client for the mpletion of the app., its subsidiaries, sor otherwise.	olicable								
Relinquished By:	Date: ///////// Received/By:	dBy:	001	קי	Phone Result:		Yes	No	Ado	Add'l Phone #:	ne #:			
Wath	Timp:	p vacing	Wala !	70	REMARKS:	[5		Auc	Audi Fax #.				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Sample Condition
Cool Intact
Tyes Tyes
No No No

CHECKED BY:
(Initials)

pm@etechenv.com

email results

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

Relinquished By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824 (505) 393-2326 FAX (505) 393-247

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	Goodnight Midstream							Test			18	I	BILL TO						ANALYSIS	LYS		RE	2	REQUEST	7				_
Project Manager:	-							70	P.O. #:	#														-			-		
Address:								0	òπ	pai	ıy:	Ete	Company: Etech						าร								_		
City:	State:	Zip:	(A.)					7	Attn:	Ψ.									ior		-			_			-		_
Phone #:	Fax #:							_	dd	Address:	S								٩n					-			-		_
Project #: 11488	88 Project Owner:	er:						0	City:						S	M		Н	s/					-		_			
Project Name: \	Project Name: Wrigley to Piper Pipeline							(0	State:			2	Zip:		des	15	X	ГР	on	_	_			-		_			+
Project Location:	n:							77	ho	Phone #:					ric	30	E	s	ati	DS							_		
Sampler Name:	Sampler Name: Lance Crenshaw							70	Fax #:	#					nlo	3 H	ВТ	xa	С	_	-						_		
FOR LAB USE ONLY		·.				MATRIX	×	-	70	R	PRESERV.	.<	SAMPLING	G	C	P		Ге	te										
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP	CONTAINERS	GROUNDWATER	VASTEWATER	SOIL	DIL	SLUDGE	OTHER:	ACID/BASE:	CE / COOL	OTHER:	DATE	T ME		J			Comple										
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ž Ž	NW22	ര	_			<				_	<		12/11/19		<	4	4												
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8	NW24	G	ے			4				-	1	-	12/12/19		4	4	4												
27	NW25	G	_			<				<	1		12/12/19		4	4	4												
8g	NW26	G	_			<				4	1		12/12/19		4	4	4					H		-					
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Su	NW28A	G	-7			<			_	_	_	_	12/12/19		<	1	4				-						-		Ц.
PLEASE NOTE: Liability a analyses, All claims includ service. In no event shall of affiliates or successors aris	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount pold by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after competion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without full ration business interruptions, loss of use, or loss of profits incurred by Circle and Cardinal to the state of the cause was a state of the cause whether shall be considered to the performance of services hereinder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	for any cla be deeme ding witho by Cardina	im aris id waiv ut limit ut rega	ing wh ed unl ation, t	ether t ess ma ousine of whe	ased ade in as inte	n cont writing rruptio	ract o	tort,	shall t	be limi Cardir loss	ted to al with	the amount paid thin 30 days after fits incurred by cli- above stated reas	by the client for t completion of the ent, its subsidiari ons or otherwise	he applicables,	ō											- 1		ı
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No see	Time:	1		1	Bellata		-	7	-	1	1	1	1	REMARKS:		L Yes	1	NO	Add	rax #									

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

0.90

Sample Condition

CHECKED BY: (Initials)

pm@etechenv.com

email results

Date: Time:

Received By:

Relinquished By:

Date: Time:

Received By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

01 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	Goodnight Midstream						-			6		BILL TO						ANALYSIS	YSI		EQ	REQUEST	ST				-
Project Manager:	_						70	P.O. #:	#												\dashv			_			
Address:							0	Company: Etech	par	ĭ.	Ete	ch						IS									
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Sampler Name:	Lance Crenshaw					Н	77	Fax #	#					nlo	18	вТ	ka	C	T		_						
FOR LAB USE ONLY					MATRIX	RX		70	RES	PRESERV	5	SAMPLING	ıĞ	Cł	Ph		e	е			_						-
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40	SW22	G	-7	-	1			-	4	-	_	12/11/19		1	1	1					-						
PLEASE NOTE: Liability analyses. All claims includ service. In no event shall of affiliates or successors aris	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor astrong or drop or lateral or the performance of services benefits of successor astrong or the consequence or conformation.	or any clain be deemed ling without w Cardinal	arising waived limitation	whethe unless in n, busin	based nade in ess into	in cont writing wruptio	ract or and re ms, los	tort, s ceive	hall b	e limit ardina loss o	ed to	the amount paid in 30 days after ts incurred by d	by the client for completion of the	r the he applicat iries,	bie					1	- 1		- 1		ı		L
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Sample Condition
Cool Intact
Pres Pres
No No

40

CHECKED BY: (Initials)

pm@etechenv.com

email results

Sampler - UPS - Bus - Other:

Delivered By: (Circle One) _ 0.9e

Relinquished By:

Time:

Date:

Received By:

Received By:

uptions, loss of use, or loss of profits incurred by client, its subsidiaries, th claim is based upon any of the above stated reasons or otherwise.

Phone Result: Fax Result: REMARKS:

□ Yes

No No

Add'l Phone #: Add'l Fax #:

email results

service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interr affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether suc

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824 (505) 393-2326 FAX (505) 393-241

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Company Marie.	Goodnight Midstream								81	BILL TO						ANALYSIS	LYS		REQUEST	E	ST		17			_
Project Manager:	_					0	P.O.	#:											\dashv		1	-			4	
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Lab I.D. H904184	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME		Ţ		1	Complet										
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Sample Condition
Cool Intact
PYes PYes
No No

4

CHECKED BY: (Initials)

pm@etechenv.com

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

0.90

Analytical Report 647357

for

Etech Environmental & Safety Solution, Inc

Project Manager: Lance Crenshaw
Wrigley to Piper

02-JAN-20

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)





02-JAN-20

Project Manager: Lance Crenshaw

Etech Environmental & Safety Solution, Inc P.O. Box 8469 Midland, TX 79708

Reference: XENCO Report No(s): 647357

Wrigley to Piper Project Address:

Lance Crenshaw:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 647357. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 647357 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holy Taylor

Holly Taylor

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 647357



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS78A	S	12-16-19 00:00		647357-001
FS79	S	12-16-19 00:00		647357-002
FS80	S	12-17-19 00:00		647357-003
FS81	S	12-17-19 00:00		647357-004
FS82	S	12-17-19 00:00		647357-005
FS83	S	12-17-19 00:00		647357-006
FS84	S	12-17-19 00:00		647357-007
FS85	S	12-17-19 00:00		647357-008
FS86	S	12-18-19 00:00		647357-009
FS87	S	12-18-19 00:00		647357-010
FS88	S	12-18-19 00:00		647357-011
FS89B	S	12-18-19 00:00		647357-012
FS90	S	12-18-19 00:00		647357-013
FS91	S	12-18-19 00:00		647357-014
FS92	S	12-18-19 00:00		647357-015
NW30	S	12-16-19 00:00		647357-016
NW31A	S	12-17-19 00:00		647357-017
NW32	S	12-17-19 00:00		647357-018
NW33	S	12-17-19 00:00		647357-019
NW34	S	12-17-19 00:00		647357-020
NW35	S	12-18-19 00:00		647357-021
NW36	S	12-18-19 00:00		647357-022
NW37A	S	12-18-19 00:00		647357-023
NW38	S	12-18-19 00:00		647357-024
NW39	S	12-18-19 00:00		647357-025
NW30F	S	12-17-19 00:00		647357-026
SW31	S	12-17-19 00:00		647357-027
SW32	S	12-17-19 00:00		647357-028
SW33	S	12-17-19 00:00		647357-029
SW34	S	12-17-19 00:00		647357-030
FS 93A	S	12-19-19 00:00		647357-031
FS 94A	S	12-19-19 00:00		647357-032
FS95A	S	12-19-19 00:00		647357-033
FS 96	S	12-19-19 00:00		647357-034
FS 97	S	12-19-19 00:00		647357-035
NW 40A	S	12-19-19 00:00		647357-036
NW 41	S	12-19-19 00:00		647357-037
SW 40	S	12-19-19 00:00		647357-038
SW41A	S	12-19-19 00:00		647357-039
SW 42	S	12-19-19 00:00		647357-040
SW35	S	12-18-19 00:00		647357-041
SW36A	S	12-18-19 00:00		647357-042
SW37	S	12-18-19 00:00		647357-043



Sample Cross Reference 647357



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

SW38B	S	12-18-19 00:00	647357-044
SW39	S	12-18-19 00:00	647357-045
EWN1	S	12-17-19 00:00	647357-046
WWN1D	S	12-17-19 00:00	647357-047



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wrigley to Piper

Project ID: Report Date: 02-JAN-20 Work Order Number(s): 647357 Date Received: 12/23/2019

Sample receipt non conformances and comments:

Lab Sample ID 647357-013 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 647357-003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3111563 Chloride by EPA 300

Lab Sample ID 647361-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3111570 Chloride by EPA 300

Lab Sample ID 647357-013 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 647357-003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Lab Sample ID 647357-013 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 647357-003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Received by OCD: 4/6/2020 10:25:59 AM XENCO LABORATORIES

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wrigley to Piper

Project ID: Work Order Number(s): 647357

Report Date: 02-JAN-20 Date Received: 12/23/2019

Batch: LBA-3111703 Chloride by EPA 300

Lab Sample ID 647357-047 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 647357-043, -044, -045, -046, -047.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3111947 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3112076 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3112080 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3112181 BTEX by EPA 8021B

Lab Sample ID 647357-031 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 647357-031, -032, -033, -034, -035, -036, -037, -038, -039, -040.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS78A

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-001

Date Collected: 12.16.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

E300P

Analyst:

CHE

% Moist:

Prep Method:

Tech:

CHE

Seq Number: 3111563

Date Prep: 12.23.19 12.30

Prep seq: 7693114

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	120	5.02	0.862	mg/kg	12.23.19 19:05	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

Cints	Date	Flag	
0 mg/kg	12.23.19 14:09	U	1
.0 mg/kg	12.23.19 14:09	U	1
.0 mg/kg	12.23.19 14:09	U	1
.0 mg/kg	12.23.19 14:09	U	
.0	mg/kg mg/kg	mg/kg 12.23.19 14:09 mg/kg 12.23.19 14:09 mg/kg 12.23.19 14:09	mg/kg 12.23.19 14:09 U mg/kg 12.23.19 14:09 U mg/kg 12.23.19 14:09 U mg/kg 12.23.19 14:09 U

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	87	70 - 135	%	
o-Terphenyl	91	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3111947

Date Prep: 12.29.19 12.00

		rrep seq.						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000384	mg/kg	12.29.19 19:18	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000455	mg/kg	12.29.19 19:18	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000564	mg/kg	12.29.19 19:18	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	0.00101	mg/kg	12.29.19 19:18	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.29.19 19:18	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	12.29.19 19:18	U	
Total BTEX		< 0.00200		0.000344	mg/kg	12.29.19 19:18	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		113		70 -	130 %	ó		
4-Bromofluorobenzene		96		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS79

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-002

Date Collected: 12.16.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111563

Date Prep: 12.23.19 12.30

Prep seq: 7693114

CAS **Dil Factor Analysis** SDL MQL **Parameter** Result Units Number Date Chloride 16887-00-6 2600 24.8 4.26 12.23.19 19:12 5 mg/kg

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
PHC610	< 50.0	50.0	15.0	mg/kg	12.23.19 15:13	U	1
C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 15:13	U	1
PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 15:13	U	1
PHC635	< 50.0		15.0	mg/kg	12.23.19 15:13	U	
	Number PHC610 C10C28DRO PHCG2835	Number Result PHC610 <50.0	Number Result MQL PHC610 <50.0	Number Result MQL SDL PHC610 <50.0	Number Result MQL SDL Units PHC610 <50.0	Number Result MQL SDL Units Date PHC610 <50.0	Number Result MQL SDL Units Date Flag PHC610 <50.0

Surrogate	% Recovery	Limits Units
1-Chlorooctane	98	70 - 135 %
o-Terphenyl	102	70 - 135 %

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3111947

Date Prep: 12.29.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	12.29.19 19:38	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	12.29.19 19:38	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	12.29.19 19:38	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	12.29.19 19:38	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.29.19 19:38	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	12.29.19 19:38	U	
Total BTEX		<0.00200		0.000344	mg/kg	12.29.19 19:38	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		112		70 - 1	130 %	b		
4-Bromofluorobenzene		100		70 - 1	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS80

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-003

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

E300P

Analyst:

CHE

% Moist:

Tech:

Prep Method:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	573	5.02	0.862	mg/kg	12.23.19 19:51	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Prep seq: 7693136

Date Prep: 12.23.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 15:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 15:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 15:34	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 15:34	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	98	70 - 135	%
o-Terphenyl	100	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000384	mg/kg	12.30.19 13:40	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000455	mg/kg	12.30.19 13:40	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000564	mg/kg	12.30.19 13:40	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	0.00101	mg/kg	12.30.19 13:40	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.30.19 13:40	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	12.30.19 13:40	U	
Total BTEX		< 0.00200		0.000344	mg/kg	12.30.19 13:40	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		107		70 - 1	130 %	5		
4-Bromofluorobenzene		86		70 - 1	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS81

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-004

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Pa	rameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Ch	loride	16887-00-6	1130	4.98	0.855	mg/kg	12.23.19 20:10		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 15:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 15:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 15:55	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 15:55	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	100	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	12.30.19 14:00	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	12.30.19 14:00	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	12.30.19 14:00	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	12.30.19 14:00	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.30.19 14:00	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	12.30.19 14:00	U	
Total BTEX		< 0.00200		0.000344	mg/kg	12.30.19 14:00	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		108		70 - 1	130 %	5		
4-Bromofluorobenzene		86		70 - 1	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS82

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-005

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

E300P Prep Method:

Analyst:

CHE

% Moist:

Tech:

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	245	5.00	0.858	mg/kg	12.23.19 20:17	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Date Prep: 12.23.19 12.00

DVM

Seq Number: 3111577

Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 16:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 16:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 16:16	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 16:16	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits Units	
1-Chlorooctane	101	70 - 135 %	
o-Terphenyl	105	70 - 135 %	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00201	0.00201	0.000386	mg/kg	12.30.19 14:20	U	1
Toluene	108-88-3	< 0.00201	0.00201	0.000457	mg/kg	12.30.19 14:20	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	0.000567	mg/kg	12.30.19 14:20	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	12.30.19 14:20	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	0.000346	mg/kg	12.30.19 14:20	U	1
Total Xylenes	1330-20-7	< 0.00201		0.000346	mg/kg	12.30.19 14:20	U	
Total BTEX		< 0.00201		0.000346	mg/kg	12.30.19 14:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	109	70 - 130	%		
4-Bromofluorobenzene	90	70 - 130	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS83

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-006

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	605	5.03	0.864	mg/kg	12.23.19 20:24	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Prep seq: 7693136

Date Prep: 12.23.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	12.23.19 16:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	12.23.19 16:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	12.23.19 16:37	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	12.23.19 16:37	U	

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	99	70 - 135	%
o-Terphenyl	102	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00202	0.00202	0.000388	mg/kg	12.30.19 14:40	U	1
Toluene	108-88-3	< 0.00202	0.00202	0.000459	mg/kg	12.30.19 14:40	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	0.000569	mg/kg	12.30.19 14:40	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	0.00102	mg/kg	12.30.19 14:40	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	0.000347	mg/kg	12.30.19 14:40	U	1
Total Xylenes	1330-20-7	< 0.00202		0.000347	mg/kg	12.30.19 14:40	U	
Total BTEX		< 0.00202		0.000347	mg/kg	12.30.19 14:40	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		109		70 - 1	130 %	5		
4-Bromofluorobenzene		88		70 - 1	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS84

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-007

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	490	4.95	0.850	mg/kg	12.23.19 20:30		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00 Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.23.19 16:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 16:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 16:58	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	12.23.19 16:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	97	70 - 135	%		
o-Terphenyl	98	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112076

Date Prep: 12.29.19 13.00

		rrep seq.						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000384	mg/kg	12.30.19 15:01	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000455	mg/kg	12.30.19 15:01	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000564	mg/kg	12.30.19 15:01	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	0.00101	mg/kg	12.30.19 15:01	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.30.19 15:01	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	12.30.19 15:01	U	
Total BTEX		< 0.00200		0.000344	mg/kg	12.30.19 15:01	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1,4-Difluorobenzene		109		70 - 3	130 %	ó		
4-Bromofluorobenzene		89		70 - 1	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS85

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-008

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	525	4.95	0.850	mg/kg	12.23.19 20:50	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00 Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 17:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 17:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 17:19	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 17:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	103	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Prep seg: 7693461

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	12.30.19 15:21	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000454	mg/kg	12.30.19 15:21	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000563	mg/kg	12.30.19 15:21	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	12.30.19 15:21	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000343	mg/kg	12.30.19 15:21	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000343	mg/kg	12.30.19 15:21	U	
Total BTEX		< 0.00199		0.000343	mg/kg	12.30.19 15:21	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	110	70 - 130	%		
4-Bromofluorobenzene	87	70 - 130	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS86

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-009

Date Collected: 12.18.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	90.2	4.99	0.857	mg/kg	12.23.19 20:56		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	12.23.19 17:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 17:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 17:39	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	12.23.19 17:39	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	99	70 - 135	%	
o-Terphenyl	101	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3112076

Date Prep: 12.29.19 13.00

		11cp seq. 7073 101						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00202	0.00202	0.000388	mg/kg	12.30.19 15:41	U	1
Toluene	108-88-3	< 0.00202	0.00202	0.000459	mg/kg	12.30.19 15:41	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	0.000569	mg/kg	12.30.19 15:41	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	0.00102	mg/kg	12.30.19 15:41	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	0.000347	mg/kg	12.30.19 15:41	U	1
Total Xylenes	1330-20-7	< 0.00202		0.000347	mg/kg	12.30.19 15:41	U	
Total BTEX		< 0.00202		0.000347	mg/kg	12.30.19 15:41	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits Units	
1,4-Difluorobenzene	111	70 - 130 %	
4-Bromofluorobenzene	89	70 - 130 %	





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS87

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-010

Date Collected: 12.18.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

% Moist:

Tech:

CHE

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	97.5	5.00	0.858	mg/kg	12.23.19 21:03	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	12.23.19 18:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	12.23.19 18:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	12.23.19 18:00	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	12.23.19 18:00	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	99	70 - 135	%	
o-Terphenyl	102	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00198	0.00198	0.000381	mg/kg	12.30.19 16:01	U	1
Toluene	108-88-3	< 0.00198	0.00198	0.000451	mg/kg	12.30.19 16:01	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	0.000559	mg/kg	12.30.19 16:01	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396	0.00100	mg/kg	12.30.19 16:01	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	0.000341	mg/kg	12.30.19 16:01	U	1
Total Xylenes	1330-20-7	< 0.00198		0.000341	mg/kg	12.30.19 16:01	U	
Total BTEX		< 0.00198		0.000341	mg/kg	12.30.19 16:01	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		109		70 - 1	130 %	b		
4-Bromofluorobenzene		90		70 - 1	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS88

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-011

Date Collected: 12.18.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor
Chloride	16887-00-6	52.1	5.03	0.864	mg/kg	12.23.19 21:09	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 18:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 18:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 18:42	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 18:42	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	101	70 - 135	%
o-Terphenyl	106	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112076

Date Prep: 12.29.19 13.00

		rrep seq. vest ves									
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto			
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	12.30.19 16:21	U	1			
Toluene	108-88-3	< 0.00199	0.00199	0.000454	mg/kg	12.30.19 16:21	U	1			
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000563	mg/kg	12.30.19 16:21	U	1			
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	12.30.19 16:21	U	1			
o-Xylene	95-47-6	< 0.00199	0.00199	0.000343	mg/kg	12.30.19 16:21	U	1			
Total Xylenes	1330-20-7	< 0.00199		0.000343	mg/kg	12.30.19 16:21	U				
Total BTEX		< 0.00199		0.000343	mg/kg	12.30.19 16:21	U				
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag			
1,4-Difluorobenzene		108		70 -	130 %	ó					
4-Bromofluorobenzene		87		70 -	130 %	ó					





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS89B

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-012

Date Collected: 12.18.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Date Prep: 12.23.19 14.40

Seq Number: 3111570

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	9 54	5.01	0.860	mg/kg	12 23 19 21:16	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 19:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 19:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 19:03	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 19:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	99	70 - 135	%	
o-Terphenyl	100	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

1,4-Difluorobenzene

4-Bromofluorobenzene

% Moist:

Tech:

KTL

Flag

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Prep seq: 7693461

		rq.						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000386	mg/kg	12.30.19 17:40	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000457	mg/kg	12.30.19 17:40	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000566	mg/kg	12.30.19 17:40	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401	0.00102	mg/kg	12.30.19 17:40	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000345	mg/kg	12.30.19 17:40	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000345	mg/kg	12.30.19 17:40	U	
Total BTEX		< 0.00200		0.000345	mg/kg	12.30.19 17:40	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

102

84

70 - 130

70 - 130





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS90

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-013

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Date Collected: 12.18.19 00.00

E300P

Analyst:

% Moist:

Prep Method:

CHE

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	204	4.96	0.852	mg/kg	12.23.19 21:22	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.23.19 19:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 19:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 19:24	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	12.23.19 19:24	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units	
1-Chlorooctane	97	70 - 135	%	
o-Terphenyl	99	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00202	0.00202	0.000389	mg/kg	12.30.19 18:00	U	1
Toluene	108-88-3	< 0.00202	0.00202	0.000460	mg/kg	12.30.19 18:00	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	0.000570	mg/kg	12.30.19 18:00	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404	0.00102	mg/kg	12.30.19 18:00	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	0.000348	mg/kg	12.30.19 18:00	U	1
Total Xylenes	1330-20-7	< 0.00202		0.000348	mg/kg	12.30.19 18:00	U	
Total BTEX		< 0.00202		0.000348	mg/kg	12.30.19 18:00	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	110	70 - 130	%		
4-Bromofluorobenzene	90	70 - 130	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS91

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-014

Date Collected: 12.18.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	80.3	5.00	0.858	mg/kg	12.23.19 21:42	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 19:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 19:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 19:45	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 19:45	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	100	70 - 135	%	
o-Terphenyl	104	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3112076

Date Prep: 12.29.19 13.00

		Trep seq. 7078 for						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00201	0.00201	0.000387	mg/kg	12.30.19 18:20	U	1
Toluene	108-88-3	< 0.00201	0.00201	0.000458	mg/kg	12.30.19 18:20	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	0.000568	mg/kg	12.30.19 18:20	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	12.30.19 18:20	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	0.000346	mg/kg	12.30.19 18:20	U	1
Total Xylenes	1330-20-7	< 0.00201		0.000346	mg/kg	12.30.19 18:20	U	
Total BTEX		< 0.00201		0.000346	mg/kg	12.30.19 18:20	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

· ·	•		
1,4-Difluorobenzene	109	70 - 130 %)
4-Bromofluorobenzene	89	70 - 130 %)





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS92

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-015

Date Collected: 12.18.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

E300P Prep Method:

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	22.1	5.04	0.865	mg/kg	12.23.19 21:49		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 20:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 20:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 20:07	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 20:07	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surroguit	,011000.013		C 111 to
1-Chlorooctane	99	70 - 135	%
o-Terphenyl	101	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00201	0.00201	0.000387	mg/kg	12.30.19 18:40	U	1
Toluene	108-88-3	< 0.00201	0.00201	0.000458	mg/kg	12.30.19 18:40	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	0.000568	mg/kg	12.30.19 18:40	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	12.30.19 18:40	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	0.000346	mg/kg	12.30.19 18:40	U	1
Total Xylenes	1330-20-7	< 0.00201		0.000346	mg/kg	12.30.19 18:40	U	
Total BTEX		< 0.00201		0.000346	mg/kg	12.30.19 18:40	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		109		70 -	130 %)		
4-Bromofluorobenzene		92		70 -	130 %	1		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

NW30

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-016

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Date Collected: 12.16.19 00.00

E300P

Analyst:

% Moist:

Prep Method:

CHE

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	125	4.97	0.853	mg/kg	12.23.19 22:08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.23.19 20:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 20:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 20:28	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	12.23.19 20:28	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits Units	
1-Chlorooctane	97	70 - 135 %	
o-Terphenyl	100	70 - 135 %	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3111947

Date Prep: 12.29.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00202	0.00202	0.000388	mg/kg	12.29.19 19:59	U	1
Toluene	108-88-3	< 0.00202	0.00202	0.000459	mg/kg	12.29.19 19:59	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	0.000569	mg/kg	12.29.19 19:59	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	0.00102	mg/kg	12.29.19 19:59	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	0.000347	mg/kg	12.29.19 19:59	U	1
Total Xylenes	1330-20-7	< 0.00202		0.000347	mg/kg	12.29.19 19:59	U	
Total BTEX		< 0.00202		0.000347	mg/kg	12.29.19 19:59	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		113		70 - 1	130 %	ó		
4-Bromofluorobenzene		98		70 - 1	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

NW31A

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-017

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	7.39	4.95	0.850	mg/kg	12.23.19 22:15		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.23.19 20:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 20:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 20:49	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	12.23.19 20:49	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits U	nits
1-Chlorooctane	100	70 - 135	%
o-Terphenyl	102	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	12.30.19 19:01	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	12.30.19 19:01	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	12.30.19 19:01	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	12.30.19 19:01	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.30.19 19:01	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	12.30.19 19:01	U	
Total BTEX		<0.00200		0.000344	mg/kg	12.30.19 19:01	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		110		70 - 1	130 %	b		
4-Bromofluorobenzene		87		70 - 1	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

NW32

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-018

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	15.7	5.03	0.864	mg/kg	12.23.19 22:21	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 21:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 21:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 21:10	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 21:10	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units	
1-Chlorooctane	98	70 - 135	%	
o-Terphenyl	101	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00201	0.00201	0.000386	mg/kg	12.30.19 19:21	U	1
Toluene	108-88-3	< 0.00201	0.00201	0.000457	mg/kg	12.30.19 19:21	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	0.000567	mg/kg	12.30.19 19:21	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	12.30.19 19:21	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	0.000346	mg/kg	12.30.19 19:21	U	1
Total Xylenes	1330-20-7	< 0.00201		0.000346	mg/kg	12.30.19 19:21	U	
Total BTEX		< 0.00201		0.000346	mg/kg	12.30.19 19:21	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		110		70 -	130 %			
4-Bromofluorobenzene		91		70 -	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

NW33

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-019

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	20.1	5.00	0.858	mg/kg	12.23.19 22:28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00 Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 21:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 21:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 21:31	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 21:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	94	70 - 135	%		
o-Terphenyl	98	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	12.30.19 19:41	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000454	mg/kg	12.30.19 19:41	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000563	mg/kg	12.30.19 19:41	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	12.30.19 19:41	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000343	mg/kg	12.30.19 19:41	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000343	mg/kg	12.30.19 19:41	U	
Total BTEX		<0.00199		0.000343	mg/kg	12.30.19 19:41	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		109		70 -	130 %			
4-Bromofluorobenzene		89		70 -	130 %			





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

NW34

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-020

Date Collected: 12.17.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Date Received: 12.23.19 11.30

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	22.0	5.00	0.858	mg/kg	12.23.19 22:34	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Prep seq: 7693136

Date Prep: 12.23.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.23.19 21:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 21:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 21:53	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	12.23.19 21:53	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	98	70 - 135	%
o-Terphenyl	103	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	12.30.19 20:01	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	12.30.19 20:01	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	12.30.19 20:01	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	12.30.19 20:01	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.30.19 20:01	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	12.30.19 20:01	U	
Total BTEX		< 0.00200		0.000344	mg/kg	12.30.19 20:01	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1,4-Difluorobenzene		108		70 -	130 %	6		
4-Bromofluorobenzene		87		70 -	130 %	6		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

NW35

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-021

Date Collected: 12.18.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	67.6	5.00	0.858	mg/kg	12.23.19 22:41	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Prep seq: 7693138

Date Prep: 12.23.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.23.19 14:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 14:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 14:09	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	12.23.19 14:09	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	100	70 - 135	%	
o-Terphenyl	103	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000384	mg/kg	12.30.19 20:21	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000455	mg/kg	12.30.19 20:21	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000564	mg/kg	12.30.19 20:21	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	0.00101	mg/kg	12.30.19 20:21	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.30.19 20:21	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	12.30.19 20:21	U	
Total BTEX		< 0.00200		0.000344	mg/kg	12.30.19 20:21	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		109		70 - 1	130 %	b		
4-Bromofluorobenzene		89		70 - 1	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

NW36

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-022

Date Collected: 12.18.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor
Chloride	16887-00-6	77.6	5.02	0.862	mg/kg	12.23.19 22:47	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Date Prep: 12.23.19 12.00

Prep seq: 7693138

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.23.19 15:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 15:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 15:13	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	12.23.19 15:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	103	70 - 135	%	
o-Terphenyl	105	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3112076

Date Prep: 12.29.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Fact
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	12.30.19 20:41	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000453	mg/kg	12.30.19 20:41	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000561	mg/kg	12.30.19 20:41	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	12.30.19 20:41	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000342	mg/kg	12.30.19 20:41	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000342	mg/kg	12.30.19 20:41	U	
Total BTEX		< 0.00199		0.000342	mg/kg	12.30.19 20:41	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1,4-Difluorobenzene		106		70 - 1	130 %	ó		
4-Bromofluorobenzene		86		70 - 1	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

NW37A

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-023

Date Collected: 12.18.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	84.4	4.95	0.850	mg/kg	12.23.19 23:27	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Date Prep: 12.23.19 12.00

Prep seq: 7693138

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 15:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 15:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 15:34	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 15:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	92	70 - 135	%	
o-Terphenyl	93	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3112080

Date Prep: 12.30.19 13.00

Trep seq. 1000 to								
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000384	mg/kg	12.31.19 01:33	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000455	mg/kg	12.31.19 01:33	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000564	mg/kg	12.31.19 01:33	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	0.00101	mg/kg	12.31.19 01:33	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.31.19 01:33	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	12.31.19 01:33	U	
Total BTEX		< 0.00200		0.000344	mg/kg	12.31.19 01:33	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		116		70 -	130 %	ó		
4-Bromofluorobenzene		98		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

NW38

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-024

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Date Collected: 12.18.19 00.00

Analyst:

CHE

% Moist:

Prep Method: E300P

Tech:

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

CAS **Dil Factor Analysis** SDL **Parameter** MQL Result Units Number Date Chloride 16887-00-6 55.2 5.01 0.860 12.23.19 23:46 mg/kg

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Prep seq: 7693138

Date Prep: 12.23.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 15:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 15:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 15:55	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 15:55	U	

Surrogate	% Recovery	Limits	Units	
1-Chlorooctane	98	70 - 135	%	
o-Terphenyl	100	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3112080

Date Prep: 12.30.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	12.31.19 01:54	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	12.31.19 01:54	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	12.31.19 01:54	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	12.31.19 01:54	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.31.19 01:54	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	12.31.19 01:54	U	
Total BTEX		< 0.00200		0.000344	mg/kg	12.31.19 01:54	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		114		70 - 1	130 %)		
4-Bromofluorobenzene		96		70 - 3	130 %	1		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

NW39

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-025

Date Collected: 12.18.19 00.00

Date Received: 12.23.19 11.30

Prep Method:

Analytical Method: Chloride by EPA 300

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	5.34	4.97	0.853	mg/kg	12.23.19 23:53	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Date Prep: 12.23.19 12.00

Prep seq: 7693138

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.23.19 16:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 16:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 16:16	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	12.23.19 16:16	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	97	70 - 135	%	
o-Terphenyl	98	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3112080

Date Prep: 12.30.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00201	0.00201	0.000387	mg/kg	12.31.19 02:14	U	1
Toluene	108-88-3	< 0.00201	0.00201	0.000458	mg/kg	12.31.19 02:14	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	0.000568	mg/kg	12.31.19 02:14	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	12.31.19 02:14	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	0.000346	mg/kg	12.31.19 02:14	U	1
Total Xylenes	1330-20-7	< 0.00201		0.000346	mg/kg	12.31.19 02:14	U	
Total BTEX		< 0.00201		0.000346	mg/kg	12.31.19 02:14	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		115		70 -	130 %)		
4-Bromofluorobenzene		95		70 -	130 %	1		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

NW30F

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-026

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

E300P Prep Method:

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	7.43	5.00	0.858	mg/kg	12.23.19 23:59		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Date Prep: 12.23.19 12.00

Prep seq: 7693138

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 16:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 16:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 16:37	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 16:37	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units	Ana
1-Chlorooctane	91	70 - 135	%	
o-Terphenyl	94	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112080

Date Prep: 12.30.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00201	0.00201	0.000386	mg/kg	12.31.19 02:35	U	1
Toluene	108-88-3	< 0.00201	0.00201	0.000457	mg/kg	12.31.19 02:35	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	0.000567	mg/kg	12.31.19 02:35	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	12.31.19 02:35	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	0.000346	mg/kg	12.31.19 02:35	U	1
Total Xylenes	1330-20-7	< 0.00201		0.000346	mg/kg	12.31.19 02:35	U	
Total BTEX		< 0.00201		0.000346	mg/kg	12.31.19 02:35	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		118		70 - 1	130 %	b		
4-Bromofluorobenzene		101		70 - 1	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

SW31

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-027

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

% Moist:

Tech:

CHE

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.02	5.02	0.862	mg/kg	12.24.19 00:06	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Date Prep: 12.23.19 12.00

Tech:

DVM

Seq Number: 3111580

Prep seq: 7693138

	Date Date	Flag	
15.0 mg	g/kg 12.23.19 16:58	U	1
15.0 mg	g/kg 12.23.19 16:58	U	1
15.0 mg	g/kg 12.23.19 16:58	U	1
15.0 mg	g/kg 12.23.19 16:58	U	
	15.0 mg	15.0 mg/kg 12.23.19 16:58 15.0 mg/kg 12.23.19 16:58 15.0 mg/kg 12.23.19 16:58	15.0 mg/kg 12.23.19 16:58 U 15.0 mg/kg 12.23.19 16:58 U 15.0 mg/kg 12.23.19 16:58 U

Surrogate	% Recovery	Limits Units
1-Chlorooctane	89	70 - 135 %
o-Terphenyl	91	70 - 135 %

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

4-Bromofluorobenzene

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3112080

Date Prep: 12.30.19 13.00

Prep seq: 7693494

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto		
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	12.31.19 02:55	U	1		
Γoluene	108-88-3	< 0.00199	0.00199	0.000453	mg/kg	12.31.19 02:55	U	1		
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000561	mg/kg	12.31.19 02:55	U	1		
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	12.31.19 02:55	U	1		
o-Xylene	95-47-6	< 0.00199	0.00199	0.000342	mg/kg	12.31.19 02:55	U	1		
Γotal Xylenes	1330-20-7	< 0.00199		0.000342	mg/kg	12.31.19 02:55	U			
Total BTEX		< 0.00199		0.000342	mg/kg	12.31.19 02:55	U			
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag		
1,4-Difluorobenzene		116		70 -	130 %					

98

70 - 130





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

SW32

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-028

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

% Moist:

Tech:

CHE

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	85.1	5.00	0.858	mg/kg	12.24.19 00:26	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Prep seq: 7693138

Date Prep: 12.23.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 17:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 17:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 17:19	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 17:19	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits U	nits
1-Chlorooctane	91	70 - 135	%
o-Terphenyl	91	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112080

Date Prep: 12.30.19 13.00

		P						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00198	0.00198	0.000382	mg/kg	12.31.19 03:16	U	1
Toluene	108-88-3	< 0.00198	0.00198	0.000452	mg/kg	12.31.19 03:16	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	0.000560	mg/kg	12.31.19 03:16	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397	0.00101	mg/kg	12.31.19 03:16	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	0.000342	mg/kg	12.31.19 03:16	U	1
Total Xylenes	1330-20-7	< 0.00198		0.000342	mg/kg	12.31.19 03:16	U	
Total BTEX		< 0.00198		0.000342	mg/kg	12.31.19 03:16	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		117		70 -	130 %	ó		
4-Bromofluorobenzene		102		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

SW33

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-029

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

% Moist:

Tech:

CHE

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor
Chloride	16887-00-6	27.6	5.00	0.858	mg/kg	12.24.19 00:32	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Prep seq: 7693138

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 17:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 17:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 17:39	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 17:39	U	

Date Prep: 12.23.19 12.00

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	91	70 - 135	%	
o-Terphenyl	93	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3112080

Date Prep: 12.30.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Fact
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	12.31.19 03:36	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000453	mg/kg	12.31.19 03:36	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000561	mg/kg	12.31.19 03:36	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	12.31.19 03:36	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000342	mg/kg	12.31.19 03:36	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000342	mg/kg	12.31.19 03:36	U	
Total BTEX		< 0.00199		0.000342	mg/kg	12.31.19 03:36	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		116		70 - 1	130 %	5		
4-Bromofluorobenzene		97		70 - 3	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

SW34

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-030

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Date Collected: 12.17.19 00.00

E300P

CHE

Analyst:

CHE

% Moist:

Prep Method: Tech:

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

CAS **Dil Factor Analysis** SDL MQL **Parameter** Result Units Number Date Chloride 16887-00-6 151 5.00 0.858 12.24.19 00:39 mg/kg

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Prep seq: 7693138

Date Prep: 12.23.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.23.19 18:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 18:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 18:00	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	12.23.19 18:00	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogate	% Recovery	Limits Units	
1-Chlorooctane	91	70 - 135 %	
o-Terphenyl	93	70 - 135 %	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112080

Date Prep: 12.30.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00198	0.00198	0.000381	mg/kg	12.31.19 03:57	U	1
Toluene	108-88-3	< 0.00198	0.00198	0.000451	mg/kg	12.31.19 03:57	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	0.000559	mg/kg	12.31.19 03:57	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396	0.00100	mg/kg	12.31.19 03:57	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	0.000341	mg/kg	12.31.19 03:57	U	1
Total Xylenes	1330-20-7	< 0.00198		0.000341	mg/kg	12.31.19 03:57	U	
Total BTEX		< 0.00198		0.000341	mg/kg	12.31.19 03:57	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1,4-Difluorobenzene		115		70 - 3	130 %	ó		
4-Bromofluorobenzene		96		70 - 1	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS 93A

Matrix:

Soil

Sample Depth:

Prep Method:

Lab Sample Id: 647357-031

Date Collected: 12.19.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	16.0	5.00	0.858	mg/kg	12.24.19 00:45	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Prep seq: 7693138

Date Prep: 12.23.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	12.23.19 18:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	12.23.19 18:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	12.23.19 18:42	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	12.23.19 18:42	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	91	70 - 135	%	
o-Terphenyl	93	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112181

Date Prep: 12.30.19 13.30

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	01.02.20 01:09	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	01.02.20 01:09	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	01.02.20 01:09	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	01.02.20 01:09	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.02.20 01:09	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	01.02.20 01:09	U	
Total BTEX		< 0.00200		0.000344	mg/kg	01.02.20 01:09	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	112	70 - 130	%		
4-Bromofluorobenzene	89	70 - 130	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS 94A

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-032

Date Collected: 12.19.19 00.00

Date Received: 12.23.19 11.30

CHE

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	118	4.96	0.852	mg/kg	12.24.19 00:52	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Prep seq: 7693138

Date Prep: 12.23.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	12.23.19 19:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 19:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 19:03	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	12.23.19 19:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	90	70 - 135	%	
o-Terphenyl	92	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3112181

Date Prep: 12.30.19 13.30

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	01.02.20 01:29	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000453	mg/kg	01.02.20 01:29	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000561	mg/kg	01.02.20 01:29	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	01.02.20 01:29	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000342	mg/kg	01.02.20 01:29	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000342	mg/kg	01.02.20 01:29	U	
Total BTEX		< 0.00199		0.000342	mg/kg	01.02.20 01:29	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		114		70 -	130 %			
4-Bromofluorobenzene		96		70 -	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS95A

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-033

Date Collected: 12.19.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

CHE

Analyst:

CHE

% Moist:

Tech:

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	63.4	5.04	0.865	mg/kg	12.24.19 00:58	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

Tech:

8015

Analyst:

ARM

% Moist:

DVM

Seq Number: 3111580

Date Prep: 12.23.19 12.00

Prep seq: 7693138

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 19:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 19:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 19:24	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 19:24	U	

Surrogate	% Recovery	Limits Units
1-Chlorooctane	90	70 - 135 %
o-Terphenyl	92	70 - 135 %

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3112181

Date Prep: 12.30.19 13.30

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000384	mg/kg	01.02.20 01:50	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000455	mg/kg	01.02.20 01:50	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000564	mg/kg	01.02.20 01:50	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	0.00101	mg/kg	01.02.20 01:50	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.02.20 01:50	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	01.02.20 01:50	U	
Total BTEX		<0.00200		0.000344	mg/kg	01.02.20 01:50	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		115		70 - 1	130 %	5		
4-Bromofluorobenzene		97		70 - 1	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS 96

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-034

Date Collected: 12.19.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

CAS **Dil Factor Analysis** SDL MQL **Parameter** Result Units Number Date Chloride 16887-00-6 906 5.01 0.860 12.24.19 01:18 mg/kg

Analytical Method: TPH By SW8015 Mod

Prep Method:

Tech:

8015

DVM

Analyst:

Seq Number: 3111580

ARM

% Moist:

Date Prep: 12.23.19 12.00

Prep seq: 7693138

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 19:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 19:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 19:45	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 19:45	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	90	70 - 135	%	
o-Terphenyl	92	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3112181

Date Prep: 12.30.19 13.30

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00202	0.00202	0.000388	mg/kg	01.02.20 02:10	U	1
Toluene	108-88-3	< 0.00202	0.00202	0.000459	mg/kg	01.02.20 02:10	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	0.000569	mg/kg	01.02.20 02:10	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	0.00102	mg/kg	01.02.20 02:10	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	0.000347	mg/kg	01.02.20 02:10	U	1
Total Xylenes	1330-20-7	< 0.00202		0.000347	mg/kg	01.02.20 02:10	U	
Total BTEX		<0.00202		0.000347	mg/kg	01.02.20 02:10	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		115		70 - 1	130 %	ó		
4-Bromofluorobenzene		99		70 - 1	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

FS 97

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-035

Date Collected: 12.19.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

% Moist:

Tech:

CHE

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	112	4.98	0.855	mg/kg	12.24.19 01:25	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Prep seq: 7693138

Date Prep: 12.23.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.23.19 20:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 20:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 20:07	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	12.23.19 20:07	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	89	70 - 135	%	
o-Terphenyl	91	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3112181

Date Prep: 12.30.19 13.30

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00198	0.00198	0.000382	mg/kg	01.02.20 02:30	U	1
Toluene	108-88-3	< 0.00198	0.00198	0.000452	mg/kg	01.02.20 02:30	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	0.000560	mg/kg	01.02.20 02:30	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397	0.00101	mg/kg	01.02.20 02:30	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	0.000342	mg/kg	01.02.20 02:30	U	1
Total Xylenes	1330-20-7	< 0.00198		0.000342	mg/kg	01.02.20 02:30	U	
Total BTEX		<0.00198		0.000342	mg/kg	01.02.20 02:30	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		115		70 -	130 %	ó		
4-Bromofluorobenzene		100		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

NW 40A

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-036

Date Collected: 12.19.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	23.3	5.05	0.867	mg/kg	12.24.19 01:44	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Prep seq: 7693138

Date Prep: 12.23.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 20:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 20:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 20:28	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 20:28	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	91	70 - 135	%
o-Terphenyl	94	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112181

Date Prep: 12.30.19 13.30

CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Fact	
71-43-2	< 0.00200	0.00200	0.000384	mg/kg	01.02.20 02:51	U	1	
108-88-3	< 0.00200	0.00200	0.000455	mg/kg	01.02.20 02:51	U	1	
100-41-4	< 0.00200	0.00200	0.000564	mg/kg	01.02.20 02:51	U	1	
179601-23-1	< 0.00399	0.00399	0.00101	mg/kg	01.02.20 02:51	U	1	
95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.02.20 02:51	U	1	
1330-20-7	< 0.00200		0.000344	mg/kg	01.02.20 02:51	U		
	< 0.00200		0.000344	mg/kg	01.02.20 02:51	U		
	% Recovery		Limits	Un	its Analysis	Date	Flag	
	115		70 -	130 %	5			
	98		70 -	130 %				
	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Number Result 71-43-2 <0.00200 108-88-3 <0.00200 100-41-4 <0.00200 179601-23-1 <0.00399 95-47-6 <0.00200 1330-20-7 <0.00200	Number Result MQL 71-43-2 <0.00200	Number Result MQL SDL 71-43-2 <0.00200	Number Result MQL SDL Units 71-43-2 <0.00200	Number Result MQL SDL Units Date 71-43-2 <0.00200	Number Result MQL SDL Units Date Flag 71-43-2 <0.00200	





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

NW 41

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-037

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Date Collected: 12.19.19 00.00

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	75.9	5.00	0.858	mg/kg	12.24.19 01:51	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Prep seq: 7693138

Date Prep: 12.23.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 20:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 20:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 20:49	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 20:49	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	91	70 - 135	%
o-Terphenyl	93	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112181

Date Prep: 12.30.19 13.30

		rrep seq.							
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto	
Benzene	71-43-2	< 0.00201	0.00201	0.000386	mg/kg	01.02.20 03:11	U	1	
Toluene	108-88-3	< 0.00201	0.00201	0.000457	mg/kg	01.02.20 03:11	U	1	
Ethylbenzene	100-41-4	< 0.00201	0.00201	0.000567	mg/kg	01.02.20 03:11	U	1	
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	01.02.20 03:11	U	1	
o-Xylene	95-47-6	< 0.00201	0.00201	0.000346	mg/kg	01.02.20 03:11	U	1	
Total Xylenes	1330-20-7	< 0.00201		0.000346	mg/kg	01.02.20 03:11	U		
Total BTEX		< 0.00201		0.000346	mg/kg	01.02.20 03:11	U		
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag	
1,4-Difluorobenzene		117		70 -	130 %	6			
4-Bromofluorobenzene		98		70 - 1	130 %	6			





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

SW 40

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-038

Date Collected: 12.19.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

E300P

Analyst:

% Moist:

Prep Method:

CHE

Tech:

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	247	5.05	0.867	mg/kg	12.24.19 01:57	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Prep seq: 7693138

Date Prep: 12.23.19 12.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.23.19 21:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 21:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 21:10	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	12.23.19 21:10	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits Units
1-Chlorooctane	90	70 - 135 %
o-Terphenyl	93	70 - 135 %

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112181

Date Prep: 12.30.19 13.30

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00201	0.00201	0.000387	mg/kg	01.02.20 03:32	U	1
Toluene	108-88-3	< 0.00201	0.00201	0.000458	mg/kg	01.02.20 03:32	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	0.000568	mg/kg	01.02.20 03:32	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	01.02.20 03:32	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	0.000346	mg/kg	01.02.20 03:32	U	1
Total Xylenes	1330-20-7	< 0.00201		0.000346	mg/kg	01.02.20 03:32	U	
Total BTEX		< 0.00201		0.000346	mg/kg	01.02.20 03:32	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		118		70 -	130 %			
4-Bromofluorobenzene		100		70 -	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

SW41A

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-039

Date Collected: 12.19.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Pa	rameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chl	oride	16887-00-6	243	5.05	0.867	mg/kg	12.24.19 02:04		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Date Prep: 12.23.19 12.00

Prep seq: 7693138

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 21:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 21:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 21:31	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 21:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	89	70 - 135	%	
o-Terphenyl	92	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3112181

Date Prep: 12.30.19 13.30

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00201	0.00201	0.000387	mg/kg	01.02.20 03:52	U	1
Toluene	108-88-3	< 0.00201	0.00201	0.000458	mg/kg	01.02.20 03:52	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	0.000568	mg/kg	01.02.20 03:52	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	01.02.20 03:52	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	0.000346	mg/kg	01.02.20 03:52	U	1
Total Xylenes	1330-20-7	< 0.00201		0.000346	mg/kg	01.02.20 03:52	U	
Total BTEX		< 0.00201		0.000346	mg/kg	01.02.20 03:52	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		116		70 - 1	130 %	5		
4-Bromofluorobenzene		96		70 - 1	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

SW 42

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-040

Date Collected: 12.19.19 00.00

Date Received: 12.23.19 11.30

Prep Method:

Analytical Method: Chloride by EPA 300

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	37.9	4.98	0.855	mg/kg	12.24.19 02:10		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111580

Date Prep: 12.23.19 12.00 Prep seq: 7693138

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.23.19 21:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.23.19 21:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.23.19 21:53	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.23.19 21:53	U	

Surrogate	% Recovery	Limits Units
1-Chlorooctane	89	70 - 135 %
o-Terphenyl	92	70 - 135 %

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3112181

Date Prep: 12.30.19 13.30

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	01.02.20 04:13	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000453	mg/kg	01.02.20 04:13	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000561	mg/kg	01.02.20 04:13	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	01.02.20 04:13	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000342	mg/kg	01.02.20 04:13	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000342	mg/kg	01.02.20 04:13	U	
Total BTEX		< 0.00199		0.000342	mg/kg	01.02.20 04:13	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		115		70 - 1	130 %	b		
4-Bromofluorobenzene		94		70 - 1	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

SW35

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-041

Date Collected: 12.18.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moist:

Tech:

Analyst:

CHE

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	248	5.00	0.858	mg/kg	12.24.19 02:17	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111702

Prep seq: 7693195

Date Prep: 12.24.19 09.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.24.19 12:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.24.19 12:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.24.19 12:55	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	12.24.19 12:55	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	91	70 - 135	%		
o-Terphenyl	94	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112080

Date Prep: 12.30.19 13.00

		P						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00202	0.00202	0.000388	mg/kg	12.31.19 04:17	U	1
Toluene	108-88-3	< 0.00202	0.00202	0.000459	mg/kg	12.31.19 04:17	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	0.000569	mg/kg	12.31.19 04:17	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	0.00102	mg/kg	12.31.19 04:17	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	0.000347	mg/kg	12.31.19 04:17	U	1
Total Xylenes	1330-20-7	< 0.00202		0.000347	mg/kg	12.31.19 04:17	U	
Total BTEX		< 0.00202		0.000347	mg/kg	12.31.19 04:17	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		115		70 - 3	130 %	5		
4-Bromofluorobenzene		95		70 - 1	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

SW36A

Matrix:

Soil

Sample Depth:

Prep Method:

Lab Sample Id: 647357-042

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Date Collected: 12.18.19 00.00

E300P

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	63.0	5.03	0.864	mg/kg	12.24.19 02:23		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111702

Prep seq: 7693195

Date Prep: 12.24.19 09.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.24.19 13:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.24.19 13:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.24.19 13:58	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.24.19 13:58	U	

Surrogate	% Recovery	Limits Units	
1-Chlorooctane	91	70 - 135 %	
o-Terphenyl	93	70 - 135 %	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3112080

Date Prep: 12.30.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	12.31.19 04:37	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000454	mg/kg	12.31.19 04:37	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000563	mg/kg	12.31.19 04:37	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	12.31.19 04:37	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000343	mg/kg	12.31.19 04:37	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000343	mg/kg	12.31.19 04:37	U	
Total BTEX		< 0.00199		0.000343	mg/kg	12.31.19 04:37	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		117		70 - 3	130 %	ó		
4-Bromofluorobenzene		99		70 - 1	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

SW37

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-043

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Date Collected: 12.18.19 00.00

Analyst:

% Moist:

Prep Method: E300P

SPC

Tech:

SPC

Seq Number: 3111703

Date Prep: 12.24.19 13.00

Prep seq: 7693234

	Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
(Chloride	16887-00-6	9.15	4.99	0.857	mg/kg	12.24.19 14:08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111702

Prep seq: 7693195

Date Prep: 12.24.19 09.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	12.24.19 14:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	12.24.19 14:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	12.24.19 14:19	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	12.24.19 14:19	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units	Analysis
1-Chlorooctane	90	70 - 135	%	
o-Terphenyl	93	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112080

Date Prep: 12.30.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00202	0.00202	0.000389	mg/kg	12.31.19 06:18	U	1
Toluene	108-88-3	< 0.00202	0.00202	0.000460	mg/kg	12.31.19 06:18	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	0.000570	mg/kg	12.31.19 06:18	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404	0.00102	mg/kg	12.31.19 06:18	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	0.000348	mg/kg	12.31.19 06:18	U	1
Total Xylenes	1330-20-7	< 0.00202		0.000348	mg/kg	12.31.19 06:18	U	
Total BTEX		< 0.00202		0.000348	mg/kg	12.31.19 06:18	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		111		70 - 3	130 %)		
4-Bromofluorobenzene		89		70 - 1	130 %	1		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

SW38B

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-044

Date Collected: 12.18.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

SPC

% Moist:

Tech:

SPC

Seq Number: 3111703

Date Prep: 12.24.19 13.00

Prep seq: 7693234

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	15.1	5.02	0.862	mg/kg	12.24.19 14:28	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111702

Date Prep: 12.24.19 09.00

Prep seq: 7693195

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.24.19 14:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.24.19 14:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.24.19 14:40	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	12.24.19 14:40	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	91	70 - 135	%	
o-Terphenyl	93	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3112080

Date Prep: 12.30.19 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	12.31.19 06:38	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000454	mg/kg	12.31.19 06:38	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000563	mg/kg	12.31.19 06:38	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	12.31.19 06:38	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000343	mg/kg	12.31.19 06:38	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000343	mg/kg	12.31.19 06:38	U	
Total BTEX		< 0.00199		0.000343	mg/kg	12.31.19 06:38	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		113		70 - 1	130 %	5		
4-Bromofluorobenzene		89		70 - 1	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

SW39

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-045

Date Collected: 12.18.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Analyst:

SPC

% Moist:

Prep Method:

Tech:

E300P SPC

Seq Number: 3111703

Date Prep: 12.24.19 13.00

Prep seq: 7693234

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	9.94	5.05	0.867	mg/kg	12.24.19 14:34	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111702

Prep seq: 7693195

Date Prep: 12.24.19 09.00

CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
PHC610	<49.9	49.9	15.0	mg/kg	12.24.19 15:02	U	1
C10C28DRO	<49.9	49.9	15.0	mg/kg	12.24.19 15:02	U	1
PHCG2835	<49.9	49.9	15.0	mg/kg	12.24.19 15:02	U	1
PHC635	<49.9		15.0	mg/kg	12.24.19 15:02	U	
	Number PHC610 C10C28DRO PHCG2835	Number Result PHC610 <49.9	Number Result MQL PHC610 <49.9	Number Result MQL SDL PHC610 <49.9	Number Result MQL SDL Units PHC610 <49.9	Number Result MQL SDL Units Date PHC610 <49.9	Number Result MQL SDL Units Date Flag PHC610 <49.9

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	90	70 - 135	%
o-Terphenyl	91	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

1,4-Difluorobenzene

4-Bromofluorobenzene

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3112080

Date Prep: 12.30.19 13.00

Prep seq: 7693494

		rrep seq.						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	12.31.19 06:59	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	12.31.19 06:59	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	12.31.19 06:59	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	12.31.19 06:59	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.31.19 06:59	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	12.31.19 06:59	U	
Total BTEX		< 0.00200		0.000344	mg/kg	12.31.19 06:59	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

115

99

%

70 - 130

70 - 130





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

EWN1

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-046

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

SPC

% Moist:

Tech:

SPC

Seq Number: 3111703

Date Prep: 12.24.19 13.00

Prep seq: 7693234

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	8.93	4.96	0.852	mg/kg	12.24.19 14:41	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111702

Prep seq: 7693195

Date Prep: 12.24.19 09.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	12.24.19 15:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	12.24.19 15:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	12.24.19 15:23	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	12.24.19 15:23	U	

Surrogate	% Recovery	Limits Units
1-Chlorooctane	88	70 - 135 %
o-Terphenyl	90	70 - 135 %

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3112080

Date Prep: 12.30.19 13.00

		1 1						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000384	mg/kg	12.31.19 07:19	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000455	mg/kg	12.31.19 07:19	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000564	mg/kg	12.31.19 07:19	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	0.00101	mg/kg	12.31.19 07:19	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.31.19 07:19	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	12.31.19 07:19	U	
Total BTEX		< 0.00200		0.000344	mg/kg	12.31.19 07:19	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		114		70 -	130 %	5		
4-Bromofluorobenzene		99		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

WWN1D

Analytical Method: Chloride by EPA 300

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647357-047

Date Collected: 12.17.19 00.00

Date Received: 12.23.19 11.30

Analyst:

% Moist:

Prep Method: E300P

Tech:

SPC

SPC

Seq Number: 3111703

Date Prep: 12.24.19 13.00

Prep seq: 7693234

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	31.6	5.04	0.865	mg/kg	12.24.19 15:40	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111702

Prep seq: 7693195

Date Prep: 12.24.19 09.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	12.24.19 15:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	12.24.19 15:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	12.24.19 15:44	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	12.24.19 15:44	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	89	70 - 135	%
o-Terphenyl	90	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112080

Date Prep: 12.30.19 13.00

		FI						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	12.31.19 07:40	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	12.31.19 07:40	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	12.31.19 07:40	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	12.31.19 07:40	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.31.19 07:40	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	12.31.19 07:40	U	
Total BTEX		< 0.00200		0.000344	mg/kg	12.31.19 07:40	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		116		70 -	130 %	5		
4-Bromofluorobenzene		98		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

7693114-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693114-1-BLK

Date Collected:

Date Received:

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111563

Date Prep: 12.23.19 12.30

Prep seq: 7693114

CAS Dil Factor **Analysis** SDL **Parameter** Result MQL Units Flag Number Chloride 16887-00-6 < 5.00 5.00 0.858 12.23.19 15:55 U mg/kg

Sample Id:

7693136-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693136-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3111577

Date Prep: 12.23.19 12.00

Prep seq: 7693136

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	12.23.19 13:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 13:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 13:06	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	93	70 - 135	%		
o-Terphenyl	97	70 - 135	%		

Sample Id:

7693138-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693138-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

% Moist:

Prep Method:

8015

Analyst:

ARM

Tech:

DVM

Seq Number: 3111580

Date Prep: 12.23.19 12.00

Prep seq: 7693138

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	12.23.19 13:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.23.19 13:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	12.23.19 13:06	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	88	70 - 135	%		
o-Terphenyl	91	70 - 135	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

7693141-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693141-1-BLK

Date Collected:

Date Received:

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111570

Date Prep: 12.23.19 14.40

Prep seq: 7693141

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.00	5.00	0.858	mg/kg	12.23.19 19:31	U	1

Sample Id:

7693142-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693142-1-BLK

Date Collected:

Date Received:

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3111571

Date Prep: 12.23.19 14.50

Prep seq: 7693142

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.00	5.00	0.858	mg/kg	12.23.19 23:07	U	1

Sample Id:

7693195-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693195-1-BLK

Date Collected:

Date Received:

1-Chlorooctane

o-Terphenyl

Analytical Method: TPH By SW8015 Mod

% Moist:

Prep Method: Tech:

70 - 135 70 - 135 8015 DVM

Analyst:

ARM Seq Number: 3111702

Date Prep: 12.24.19 09.00

Prep seq: 7693195

90

95

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	12.24.19 11:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	12.24.19 11:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	12.24.19 11:52	U	1
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

7693234-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693234-1-BLK

Date Collected:

Date Received:

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

SPC

% Moist:

Tech:

SPC

Seq Number: 3111703

Date Prep: 12.24.19 13.00

Prep seq: 7693234

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.00	5.00	0.858	mg/kg	12.24.19 13:48	U	1

Sample Id:

7693451-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693451-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method:

5030B

Analysis Date

Flag

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3111947

Date Prep: 12.29.19 12.00

Prep seq: 7693451

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	12.29.19 18:37	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	12.29.19 18:37	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	12.29.19 18:37	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	12.29.19 18:37	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.29.19 18:37	U	1

Surrogate	% Recovery	Limits Units	
1,4-Difluorobenzene	111	70 - 130 %	
4-Bromofluorobenzene	91	70 - 130 %	





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

7693461-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693461-1-BLK

Seq Number: 3112076

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method:

5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Date Prep: 12.29.19 13.00

Prep seq: 7693461

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	12.30.19 13:00	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	12.30.19 13:00	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	12.30.19 13:00	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	12.30.19 13:00	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.30.19 13:00	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	70 - 130	%		
4-Bromofluorobenzene	80	70 - 130	%		

Sample Id:

7693494-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693494-1-BLK

Date Collected:

Date Received:

Prep Method:

Analytical Method: BTEX by EPA 8021B

Tech:

5030B

Flag

Analyst:

KTL

% Moist:

KTL

Seq Number: 3112080

Date Prep: 12.30.19 13.00

Prep seq: 7693494

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	12.31.19 01:13	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	12.31.19 01:13	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	12.31.19 01:13	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	12.31.19 01:13	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	12.31.19 01:13	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date
1,4-Difluorobenzene	113	70 - 130	%	
4-Bromofluorobenzene	92	70 - 130	%	





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper

Sample Id:

7693497-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693497-1-BLK

1,4-Difluorobenzene

4-Bromofluorobenzene

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

% Moist:

KTL

Tech:

70 - 130

70 - 130

KTL

Seq Number: 3112181

Date Prep: 12.30.19 13.30

Prep seq: 7693497

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	01.02.20 00:48	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	01.02.20 00:48	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	01.02.20 00:48	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	01.02.20 00:48	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.02.20 00:48	U	1
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

112

90



Flagging Criteria



- Page 474 of 744
- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



Project Name: Wrigley to Piper

Work Orders: 647357,

Project ID:

Lab Batch #: 3111947

Sample: 7693451-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/29/19 16:27	SU	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0332	0.0300	111	70-130		
4-Bromofluorobenzene	0.0278	0.0300	93	70-130		

Lab Batch #: 3111947

Sample: 7693451-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg

/kg	Date Analyzed: 12/29/19 16:48	SU	SURROGATE RECOVERY STUDY							
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes			[D]						
ie		0.0331	0.0300	110	70-130					

4-Bromofluorobenzene Lab Batch #: 3111947

1,4-Difluorobenzene

Sample: 647357-001 S / MS

Batch:

0.0299

Matrix: Soil

100

70-130

0.0300

Units: mg/kg Date Analyzed: 12/29/19 17:08	SU	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0333	0.0300	111	70-130		
4-Bromofluorobenzene	0.0311	0.0300	104	70-130		

Lab Batch #: 3111947

Sample: 647357-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/29/19 17:28	SU	RROGATE RI	ECOVERY S	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0336	0.0300	112	70-130	
4-Bromofluorobenzene	0.0308	0.0300	103	70-130	

Lab Batch #: 3111947

Sample: 7693451-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/29/19 18:37	SU	RROGATE RE	ECOVERY S	STUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			. ,		
1,4-Difluorobenzene	0.0333	0.0300	111	70-130	
4-Bromofluorobenzene	0.0272	0.0300	91	70-130	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Wrigley to Piper

Work Orders: 647357,

Project ID:

Lab Batch #: 3112076

Sample: 7693461-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/30/19 11:01	SU	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0296	0.0300	99	70-130		
4-Bromofluorobenzene	0.0280	0.0300	93	70-130		

Lab Batch #: 3112076

Sample: 7693461-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/30/19 11:21	SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0314	0.0300	105	70-130			
4-Bromofluorobenzene	0.0283	0.0300	94	70-130			

Lab Batch #: 3112076

Sample: 647242-001 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/30/19 11:41	SU	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0322	0.0300	107	70-130		
4-Bromofluorobenzene	0.0290	0.0300	97	70-130		

Lab Batch #: 3112076

Sample: 647242-001 SD / MSD

Batch:

1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/30/19 12:01	SU	RROGATE RI	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0330	0.0300	110	70-130	
4-Bromofluorobenzene	0.0284	0.0300	95	70-130	

Lab Batch #: 3112076

Sample: 7693461-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/30/19 13:00	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0296	0.0300	99	70-130	
4-Bromofluorobenzene	0.0239	0.0300	80	70-130	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Wrigley to Piper

Work Orders: 647357,

Project ID:

Lab Batch #: 3112080

Sample: 7693494-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/30/19 23:03	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0331	0.0300	110	70-130	
4-Bromofluorobenzene	0.0287	0.0300	96	70-130	

Lab Batch #: 3112080

Sample: 7693494-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg

/kg	Date Analyzed: 12/30/19 23:23	SURROGATE RECOVERY STUDY							
BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
	Analytes			[D]					
e		0.0333	0.0300	111	70-130				
ene		0.0289	0.0300	96	70-130				

4-Bromofluorobenzene Lab Batch #: 3112080

1,4-Difluorobenzene

Sample: 647357-028 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/30/19 23:44	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0314	0.0300	105	70-130	

Lab Batch #: 3112080

Sample: 647357-028 SD / MSD

Batch:

1

Matrix: Soil

Units: mg/kg Date Analyzed: 12/31/19 00:04	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0347	0.0300	116	70-130	
4-Bromofluorobenzene	0.0337	0.0300	112	70-130	

Lab Batch #: 3112080

Sample: 7693494-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/31/19 01:13	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0340	0.0300	113	70-130	
4-Bromofluorobenzene	0.0276	0.0300	92	70-130	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Wrigley to Piper

Work Orders: 647357,

Project ID:

Lab Batch #: 3112181

Sample: 7693497-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/01/20 22:37	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0338	0.0300	113	70-130		
4-Bromofluorobenzene	0.0270	0.0300	90	70-130		

Lab Batch #: 3112181

Sample: 7693497-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 01/01/20 22:58	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0277	0.0300	92	70-130	

Lab Batch #: 3112181

Sample: 647357-031 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 01/01/20 23:18	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0349	0.0300	116	70-130	
4-Bromofluorobenzene	0.0292	0.0300	97	70-130	

Lab Batch #: 3112181

Sample: 647357-031 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 01/01/20 23:38	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0340	0.0300	113	70-130	
4-Bromofluorobenzene	0.0295	0.0300	98	70-130	

Lab Batch #: 3112181

Sample: 7693497-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 01/02/20 00:48	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			[-]		
1,4-Difluorobenzene	0.0336	0.0300	112	70-130	
4-Bromofluorobenzene	0.0270	0.0300	90	70-130	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Wrigley to Piper

Work Orders: 647357,

Project ID:

Lab Batch #: 3111577

Sample: 7693136-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/23/19 13:06	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	92.6	100	93	70-135	
o-Terphenyl	48.4	50.0	97	70-135	

Lab Batch #: 3111577

Sample: 7693136-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/23/19 13:27	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	110	100	110	70-135		

63.1

Lab Batch #: 3111577

o-Terphenyl

Sample: 7693136-1-BSD / BSD

Batch:

Matrix: Solid

126

70-135

50.0

1

Units: mg/kg Date Analyzed: 12/23/19 13:48	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	97.8	100	98	70-135		
o-Terphenyl	48.1	50.0	96	70-135		

Lab Batch #: 3111577

Sample: 647357-001 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/19 14:30	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	107	99.9	107	70-135	
o-Terphenyl	51.8	50.0	104	70-135	

Lab Batch #: 3111577

Sample: 647357-001 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/19 14:52	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	99.7	107	70-135	
o-Terphenyl	52.6	49.9	105	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Wrigley to Piper

Work Orders: 647357,

Project ID:

Lab Batch #: 3111580

Sample: 7693138-1-BLK / BLK

Batch: Matrix: Solid

Units: mg/kg	Date Analyzed: 12/23/19 13:06	SURROGATE RECOVERY STUDY					
ľ	y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane		88.2	100	88	70-135		
o-Terphenyl		45.4	50.0	91	70-135		

Lab Batch #: 3111580

Sample: 7693138-1-BKS / BKS

Batch: 1

Matrix: Solid

Unite mo/ko

Date Analyzed: 12/23/19 13:27

SURROGATE RECOVERY STUDY

Units: hig/kg Date Analyzeu. 12/23/19 13.27						
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	109	100	109	70-135		
o-Terphenyl	60.3	50.0	121	70-135		

Lab Batch #: 3111580

Sample: 7693138-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/23/19 13:48	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.6	100	98	70-135	
o-Terphenyl	47.5	50.0	95	70-135	

Lab Batch #: 3111580

Sample: 647357-021 S / MS

1 Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/19 14:30	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	99.9	99.7	100	70-135		
o-Terphenyl	48.1	49.9	96	70-135		

Lab Batch #: 3111580

Sample: 647357-021 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/23/19 14:52	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.9	99.6	99	70-135	
o-Terphenyl	48.1	49.8	97	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Wrigley to Piper

Work Orders: 647357,

Project ID:

Lab Batch #: 3111702

Sample: 7693195-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/24/19 11:52	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	90.3	100	90	70-135	
o-Terphenyl	47.6	50.0	95	70-135	

Lab Batch #: 3111702

Sample: 7693195-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 12/24/19 12:13	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	96.6	100	97	70-135			
o-Terphenyl	46.9	50.0	94	70-135			

Lab Batch #: 3111702

Sample: 7693195-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 12/24/19 12:34	SU	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	103	100	103	70-135			
o-Terphenyl	49.7	50.0	99	70-135			

Lab Batch #: 3111702

Sample: 647357-041 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/24/19 13:16	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	97.7	99.7	98	70-135	
o-Terphenyl	47.9	49.9	96	70-135	

Lab Batch #: 3111702

Sample: 647357-041 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 12/24/19 13:37	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.1	99.8	98	70-135	
o-Terphenyl	47.5	49.9	95	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution





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Project Name: Wrigley to Piper

Work Order #: 647357

Project ID:

Analyst:

KTL

Date Prepared: 12/29/2019

Date Analyzed: 12/29/2019

Lab Batch ID: 3111947

Sample: 7693451-1-BKS

Matrix: Solid **Batch #:** 1

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene	< 0.00200	0.100	0.108	108	0.100	0.105	105	3	70-130	35	
Toluene	< 0.00200	0.100	0.0988	99	0.100	0.0979	98	1	70-130	35	
Ethylbenzene	< 0.00200	0.100	0.0998	100	0.100	0.101	101	1	70-130	35	
m,p-Xylenes	< 0.00400	0.200	0.203	102	0.200	0.206	103	1	70-130	35	
o-Xylene	< 0.00200	0.100	0.100	100	0.100	0.102	102	2	70-130	35	

Analyst:

KTL

Date Prepared: 12/29/2019

Date Analyzed: 12/30/2019

Lab Batch ID: 3112076

Sample: 7693461-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.000385	0.100	0.0890	89	0.100	0.0930	93	4	70-130	35	
Toluene	< 0.000456	0.100	0.0888	89	0.100	0.0902	90	2	70-130	35	
Ethylbenzene	< 0.000565	0.100	0.0915	92	0.100	0.0925	93	1	70-130	35	
m,p-Xylenes	< 0.00101	0.200	0.189	95	0.200	0.190	95	1	70-130	35	
o-Xylene	< 0.000344	0.100	0.0972	97	0.100	0.0978	98	1	70-130	35	





Project Name: Wrigley to Piper

Work Order #: 647357

Project ID:

Analyst:

KTL

Date Prepared: 12/30/2019

Date Analyzed: 12/30/2019

Lab Batch ID: 3112080

Sample: 7693494-1-BKS

Batch #: 1 Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	[B]	Result [C]	%R [D]	[E]	Duplicate Result [F]	%R [G]	%	%R	%RPD	
Benzene	< 0.00200	0.100	0.107	107	0.100	0.0989	99	8	70-130	35	
Toluene	< 0.00200	0.100	0.0984	98	0.100	0.0914	91	7	70-130	35	
Ethylbenzene	< 0.00200	0.100	0.0994	99	0.100	0.0923	92	7	70-130	35	
m,p-Xylenes	< 0.00400	0.200	0.200	100	0.200	0.187	94	7	70-130	35	
o-Xylene	< 0.00200	0.100	0.100	100	0.100	0.0938	94	6	70-130	35	

Analyst:

KTL

Lab Batch ID: 3112181

Sample: 7693497-1-BKS

Date Prepared: 12/30/2019

Batch #: 1

Date Analyzed: 01/01/2020

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000385	0.100	0.0994	99	0.100	0.0992	99	0	70-130	35	
Toluene	< 0.000456	0.100	0.0896	90	0.100	0.0887	89	1	70-130	35	
Ethylbenzene	< 0.000565	0.100	0.0900	90	0.100	0.0894	89	1	70-130	35	
m,p-Xylenes	< 0.00101	0.200	0.180	90	0.200	0.179	90	1	70-130	35	
o-Xylene	< 0.000344	0.100	0.0901	90	0.100	0.0900	90	0	70-130	35	





Project Name: Wrigley to Piper

Work Order #: 647357

Project ID:

Analyst:

CHE

Date Prepared: 12/23/2019

Date Analyzed: 12/23/2019

Lab Batch ID: 3111563

Sample: 7693114-1-BKS

Batch #: 1 Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	< 0.858	250	264	106	250	274	110	4	90-110	20	

Analyst:

CHE

Date Prepared: 12/23/2019

Date Analyzed: 12/23/2019

Lab Batch ID: 3111570

Sample: 7693141-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	< 0.858	250	249	100	250	249	100	0	90-110	20	

Analyst:

CHE

Date Prepared: 12/23/2019

Date Analyzed: 12/23/2019

Lab Batch ID: 3111571

Sample: 7693142-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	< 0.858	250	258	103	250	253	101	2	90-110	20	





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Project Name: Wrigley to Piper

Work Order #: 647357

Project ID:

Analyst:

SPC

Date Prepared: 12/24/2019

Date Analyzed: 12/24/2019

Lab Batch ID: 3111703

Sample: 7693234-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	< 0.858	250	269	108	250	269	108	0	90-110	20	

Analyst:

ARM

Date Prepared: 12/23/2019

Date Analyzed: 12/23/2019

Lab Batch ID: 3111577

Sample: 7693136-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	904	90	1000	876	88	3	70-135	20	
Diesel Range Organics (DRO)	<15.0	1000	906	91	1000	883	88	3	70-135	20	

Analyst:

ARM

Date Prepared: 12/23/2019

Date Analyzed: 12/23/2019

Lab Batch ID: 3111580

Sample: 7693138-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	912	91	1000	898	90	2	70-135	20	
Diesel Range Organics (DRO)	<15.0	1000	902	90	1000	882	88	2	70-135	20	





Project Name: Wrigley to Piper

Work Order #: 647357

Project ID:

Analyst:

ARM

Date Prepared: 12/24/2019

Date Analyzed: 12/24/2019

Lab Batch ID: 3111702

Sample: 7693195-1-BKS

Batch #: 1

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Matrix: Solid

		DLAN	THE POLICE OF TH	JI IIXL / I				MECO 11			
TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	926	93	1000	1000	100	8	70-135	20	
Diesel Range Organics (DRO)	<15.0	1000	953	95	1000	1020	102	7	70-135	20	



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Project Name: Wrigley to Piper

Work Order #:

647357 3111947

QC- Sample ID: 647357-001 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: **Date Analyzed:**

12/29/2019

Date Prepared: 12/29/2019

Analyst: KTL

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00200	0.100	0.0886	89	0.0998	0.0857	86	3	70-130	35	
Toluene	< 0.00200	0.100	0.0834	83	0.0998	0.0799	80	4	70-130	35	
Ethylbenzene	< 0.00200	0.100	0.0849	85	0.0998	0.0807	81	5	70-130	35	
m,p-Xylenes	< 0.00401	0.200	0.175	88	0.200	0.165	83	6	70-130	35	
o-Xylene	< 0.00200	0.100	0.0877	88	0.0998	0.0823	82	6	70-130	35	

Lab Batch ID:

3112076

QC- Sample ID: 647242-001 S

Batch #:

Matrix: Soil

Date Analyzed:

12/30/2019

Date Prepared: 12/29/2019

Analyst: KTL

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	%R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Benzene	<0.000382	0.0992	0.0886	89	0.100	0.0778	78	13	70-130	35	
Toluene	0.000521	0.0992	0.0809	81	0.100	0.0657	65	21	70-130	35	X
Ethylbenzene	< 0.000560	0.0992	0.0773	78	0.100	0.0587	59	27	70-130	35	X
m,p-Xylenes	< 0.00101	0.198	0.157	79	0.200	0.117	59	29	70-130	35	X
o-Xylene	0.000371	0.0992	0.0827	83	0.100	0.0642	64	25	70-130	35	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



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Project Name: Wrigley to Piper

Work Order #:

647357 3112080

QC- Sample ID: 647357-028 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: **Date Analyzed:**

12/30/2019

Date Prepared: 12/30/2019

Analyst: KTL

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]	Kesuit [F]	[G]	70	/0K	70KI D	
Benzene	< 0.00201	0.100	0.0860	86	0.100	0.0960	96	11	70-130	35	
Toluene	< 0.00201	0.100	0.0795	80	0.100	0.0896	90	12	70-130	35	
Ethylbenzene	< 0.00201	0.100	0.0800	80	0.100	0.0902	90	12	70-130	35	
m,p-Xylenes	< 0.00402	0.201	0.161	80	0.200	0.182	91	12	70-130	35	
o-Xylene	< 0.00201	0.100	0.0811	81	0.100	0.0917	92	12	70-130	35	

Lab Batch ID:

3112181

QC- Sample ID: 647357-031 S

Batch #:

Matrix: Soil

Date Analyzed:

01/01/2020

Date Prepared: 12/30/2019

Analyst: KTL

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[0]	[D]	[E]	Kesuit [F]	[G]	70	/0K	70KI D	
Benzene	< 0.00202	0.101	0.0762	75	0.0992	0.0734	74	4	70-130	35	
Toluene	< 0.00202	0.101	0.0609	60	0.0992	0.0602	61	1	70-130	35	X
Ethylbenzene	< 0.00202	0.101	0.0552	55	0.0992	0.0565	57	2	70-130	35	X
m,p-Xylenes	< 0.00403	0.202	0.103	51	0.198	0.113	57	9	70-130	35	X
o-Xylene	< 0.00202	0.101	0.0564	56	0.0992	0.0573	58	2	70-130	35	X





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Project Name: Wrigley to Piper

Work Order #:

647357 3111563

QC- Sample ID: 646743-002 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

12/23/2019

Date Prepared: 12/23/2019

Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	39.8	248	302	106	248	310	109	3	90-110	20	

Lab Batch ID:

3111563

QC- Sample ID: 647361-005 S

Batch #:

Matrix: Soil

Date Analyzed:

12/23/2019

Date Prepared: 12/23/2019

Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	468	250	671	81	250	674	82	0	90-110	20	X

Lab Batch ID:

3111570

QC- Sample ID: 647357-003 S

Batch #:

Matrix: Soil

Date Analyzed:

12/23/2019

Date Prepared: 12/23/2019

Analyst: CHE

1

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample	. 1	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride	573	251	828	102	251	818	98	1	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E





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Project Name: Wrigley to Piper

Work Order #:

647357 3111570

QC- Sample ID: 647357-013 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

12/23/2019

Date Prepared: 12/23/2019

Analyst: CHE

Reporting Units:

mg/kg

Analyst. Cli

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	204	248	425	89	248	460	103	8	90-110	20	X

Lab Batch ID:

3111571

QC- Sample ID: 647357-023 S

Batch #:

Matrix: Soil

Date Analyzed:

12/23/2019

Date Prepared: 12/23/2019

Analyst: CHE

: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	84.4	248	342	104	248	338	102	1	90-110	20	

Lab Batch ID:

3111571

QC- Sample ID: 647357-033 S

Batch #:

Matrix: Soil

Date Analyzed:

12/24/2019

Date Prepared: 12/23/2019

Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

1

Chloride by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[0]	[D]	[E]	Result [1]	[G]	76	/ UIX	70KI D	
Chloride	63.4	252	324	103	252	323	103	0	90-110	20	





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Project Name: Wrigley to Piper

Work Order #:

647357

Project ID:

Lab Batch ID:

3111703

QC- Sample ID: 647357-043 S

Batch #:

Matrix: Soil

Date Analyzed:

12/24/2019

Date Prepared: 12/24/2019

Analyst: SPC

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	9.15	250	286	111	250	285	110	0	90-110	20	X

Lab Batch ID:

3111703

QC- Sample ID: 647357-047 S

Batch #:

Matrix: Soil

Date Analyzed:

12/24/2019

Date Prepared: 12/24/2019

Analyst: SPC

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	[]	[10]		[D]	[12]		[0]				
Chloride	31.6	252	310	110	252	308	110	1	90-110	20	

Lab Batch ID:

3111577

QC- Sample ID: 647357-001 S

Batch #:

Matrix: Soil

Date Analyzed:

12/23/2019

Date Prepared: 12/23/2019

Analyst: ARM

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

1

TPH By SW8015 Mod	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]	Kesuit [F]	[G]	/6	70K	/0KFD	
Gasoline Range Hydrocarbons (GRO)	<15.0	999	964	96	997	976	98	1	70-135	20	
Diesel Range Organics (DRO)	<15.0	999	964	96	997	986	99	2	70-135	20	



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Project Name: Wrigley to Piper

Work Order #:

647357 3111580

QC- Sample ID: 647357-021 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

12/23/2019

Date Prepared: 12/23/2019

Analyst: ARM

Reporting Units:

mg/kg

Analyst: ARIV

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	892	89	996	892	90	0	70-135	20	
Diesel Range Organics (DRO)	<15.0	997	877	88	996	888	89	1	70-135	20	

Lab Batch ID:

3111702

QC- Sample ID: 647357-041 S

Batch #:

Matrix: Soil

Date Analyzed:

12/24/2019

Date Prepared: 12/24/2019

Analyst: ARM

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Parent Sample Result	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Gasoline Range Hydrocarbons (GRO)	<15.0	997	883	89	998	897	90	2	70-135	20	
Diesel Range Organics (DRO)	<15.0	997	893	90	998	906	91	1	70-135	20	

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7-0330 C	B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330 C.O.C. Serial #	10-509-3334 F	San Antonio 3	3_1900 Car	Odono 433 EE3 4000	つつんかった	284-242-4200	300 Houston	214-902-0300	50 Dallas	B&A Laboratories: Hobbs 575-392-7550	iboratories: Ho	S&A La
Received on time to meet HTs?							1 1						4
Proper containers used? pH verified-acceptable, excl VOCs?				3									ω
Custody seals intact? VOCs rec'd w/o headspace?		2 2 3 5		Z Z									Ν.
Labeled with proper preservatives?	95.5.6 9.5.6.6		2000	MARKIN	5	14.4	2/20/12	Ph 1	Sem	K.	2	10/10	1-
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Non-Conformances found?	`	Match Incomplete	D ERPIMS	ADaPT SEDD	QAPP	AFCEE	1 2 3 4 CLP	SC NJ PA OK LA 1	GA NC SC N	¥ ₹ Q	ES LPST DryCin	TRRP DW NPDES	CTLs TF
Temp °C	Coolers	COC & Labels	Us	EDDs	ation	al & Certific	QA/QC Level & Certification	s & Regs	STATE for Certs & Regs	STAT	Clean-up Std	Progr	
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Hold (CALL) on Highest T					TPH		Filtered Integrity OK (Y/N) Total # of containers	Code A	t Collect Time	Collect Date	Sample ID	Sar	ample#
				ΓEX ———	8015M	imple	Monthly Quartely	aily Weekly N/A	Circle One Event: D Semi-Annual Annual	Circle Oı Semi-Anı		· Name: Villa	Sampler Name: Catalina Villa
PAH nly lf						≀60		Quote #:		tream	Ralph Tijerina, Goodnight Midstream		Invoice To:
H ₂ SO ₄ G. I D. NaOH H					_	Pres Type		PO#:			iper	Wrigley to Piper	r lojaci ID.
D A				GC GC	GC	Com Type '	pm@etechenv.com	pm@ete	Email:		shaw	Lance Crenshaw	TW/Attn:
		YSIES REQUESTED	ANALYSE	200000000000000000000000000000000000000			88260	NM Zip: 8	State: >			Lovington	City
Size(s): 20z, 40z, 80z, 16oz, 32oz, 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other	14D Ot	4D 5D 7D 10D	1D 2D 3D 4D	5목	Std (5-7D)		(575)396-1429	Fax:			Hwy.		Address:
	Time:	<i>/</i> :	Need results by:	= D	Work Days	TAT W	(575)396-2378	ĕ			onmental	٠ ا	Company.
VV Vial Prepreserved VP Vial Prepreserved GG Gilass Amber GG Glass Clear PA Plastic Amber		LAB W.O#: Field billable Hrs		19700 (402)	Odessa, 12	got L.TA Land	1000 (452)505-1600	1			;rooal-c	destor todachemistry	Endionacents
3	je1_ of1_	Page_		(Ent Oders TV 707		Odessa: 12600 West 120		₩ TY 77477	hriar Dr Staffo	Houston: 4143 Greenbriar Dr. Stafford TX 77477 (281)240-4200		

#	Sampler Name: Catalina Villa	Invoice To: R:	Project ID: W	PM/Attn: La	City: Lo	Address: 31	Company: Et		Laboratories	X A A
		Ralph Tijerina, Goodnight Midstream	Wrigley to Piper	Lance Crenshaw	Lovington	3100 Plains Hwy.	Etech Environmental			6
	Circle One Event: Daily Semi-Annual Annual			Email:	State: NM				. Stafford, TX 77477 (28:	CHAI
d y y of sers	Circle One Event: Daily Weekly Monthly Quartely Semi-Annual Annual N/A	Quote #:	PO#:	pm@etechenv.com contType*	Zip: 88260	Fax: (575)396-1429	Phone: (575)396-2378		Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800 roool-c	CHAIN OF CUSTODY RECORD
tile	mple s by 8	260	Pres Type**	Cont Type GC		Std (5-	TAT Work Days = D Need results by		st I-20 East Odessa, T	DY RECOF
В	ΓEX	·	_	GC		7D) 5Hrs	s = D		X 79765 (43	8
	CI			GC	ANALYSES REQUESTED	Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7	Need results by:	Field bill	32)563-1800 LAB W.O#:	
					UESTED	4D 5D 7D 10D 14D Other	Ti	Field billable Hrs:	v.o#: \Q[Page 1 of 1
Holo) est T	Sampl Ru PH(ė n PAH Only II					ime:	F. C	1787	
SW Surface Water O Oil OW Ocean/Sea Water T Tissue	GW Ground Water S Soil/S WW Waste Water W Wipe DW Drinking Water A Air	^ Matrix Type Codes	B. HNO3 F. M6CH J. MCAA H ₂ SO ₄ G. Na ₂ S ₂ O ₃ K. Znac&NaOH D. NaOH H. NaHSO ₄ L Asbc Acic	E. HCL	** Preservative Type Codes	Size(s): 2oz, 4oz, 8oz, 16oz, 32oz , 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other		P 28	TS : eserved AC : er TB :	* Container Type Codes VA Vial Amber ES Encore Sampler
	Soil/Sediment/Solid Wipe Air	odes	J. MCAA ZnAc&NaOH L Asbc Acid&NaOH		e Codes	Gal her		Zip Lock Bag Plastic Clear	TerraCore Sampler Air Canister Tedlar Bag	pe Codes Encore Sampler

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Invoice To:	Ralph Tijerina, Goodnight Midstream	3	Quote #:		:60						_		i PAH miy if	O. A Mairix
Sampler Name: Catalina Villa	ne:	Circle One Event: Daily Weekly Semi-Annual Annual N/A	1	Monthly Quartely	mple by 82	8015M	EX	CI						NA G
ample#	Sample ID		Code A Fig.	Filtered Integrity OK (Y/N) Total # of containers	Exa Volatiles	TPH	B1						Hold (CALL) on Highest T	
Si					#Cont La	Lab Only:								REMARKS
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2	FS89B	12/18/2019				×	×	×						
3	FS90	12/18/2019			i i	×	×	×						
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5	FS92	12/18/2019		1		×	\times	×						
6	NW30	12/16/2019		, T	SCHOOL STATE OF THE PARTY OF TH									
_7	NW31A	12/17/2019				<u>×</u>	×	×						
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9	NW33	12/17/2019				×××	$\times \times $	× × ×						
0	NW34	12/17/2019				$\times \times \times \times $	$\times \times \times $	$\times \times \times \times$						
		STATE for Certs & Regs				$\times \times \times \times \times$	$\times \times \times \times $	× × × × ×						
Other:	DW NPDES LPST DryCin	FL TX GA NC SC AL NM Other:	arts & Regs	1 1 X 1 1 X 1 1 X 1 1 X 1 1 X 1 X 1 X 1	& Certificati	9 × × × × ×			coc	COC & Labels	g	Coclers	Temp °C	Lab Use Only
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2			2	QA/QC Leve 1 2 3 4 CLP IELAC DOD-ELAP Date [\(\frac{1}{2} \) \(\frac{1}{2} \) \(\frac{1}{2} \)	& Certificati AFCEE OAPP Other:		S OTHER S OTHE			5058		lers lers	10.8 Time	Lab Use Only Non-Conformances found? Samples infact upon arrival? Received on Wel (cs? Labeled with proper preservalives? Received within holding time?
ω			>	QA/QC Leve 1 2 3 4 CLP ELAC DOD-ELAP Date / // 20// 1	& Certificati AFCEE QAPP Other: Time		Reprise Superior Supe	DDS X X X X X X X X X X X X X X X X X X		5000 50000			np °c	Lab Use Only Non-Conformances found? Samples intact upon arrival? Received on Wet Ice? Received with probling time? Custody seals intact? VOCs rec'd wio headspace?
8&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281 242 4200 Oderon 422 552 4200 See Anti-			₽	QA/QC Leve 1 2 3 4 CLP ELAC DOD-ELAP Date [\(\frac{1}{2} \) \frac{9}{4} / 1 \]	& Certificati AFCEE QAPP Other: Time		S OTHER S OTHER S	EDD ERPINS		3058 590508		ers ers	np.°c	Lab Use Only Non-Conformances found? Samples intact upon arrival? Samples intact upon arrival? Received on Wet Ice? Labeled with proper preservatives? Received within holding time? Custody seals intact? VOCs rect wio headspace? Proper containers used? Physicial cut-interest pack year VCCs?

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Other:

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TX GA NC

SC NJ PA OK LA Affiliation

1 2 3 4 CLP AFCE NELAC DoD-ELAP Other.

AFCEE QAPP

ADaPT SEDD XLS Other:

ERPIMS

Match Absent

Incomplete

t Unclear

EDDs

COC & Labels

Coolers

Temp °C 0,8

Received within holding time?

abeled with proper preservatives

Custody seals intact?

pH verified-acceptable, excl VOCs VOCs rec'd w/o headspace?

Received on time to meet HTs? roper containers used? Samples intact upon arrival?

Received on Wet Ice?

Non-Conformances found?

Lab Use Only

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QA/QC Level & Certification

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SW30F

NW39 NW38

> 12/18/2019 12/18/2019

NW37A

12/18/2019 12/18/2019

Company: aboratories Etech Environmental 0

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800

CHAIN OF CUSTODY RECORD

Field billable Hrs LAB W.O#:

Page_ Time:

Encore Sampler
TerraCore Sampler
Air Canister
Tedlar Bag
Zip Lock Bag
Plastic Clear

VA VIal Amber
VC VIal Clear
VP VIal Pre-preserved
GA Glass Amber
GC Glass Clear
PA Plastic Amber
PA Plastic Clear
Other Size(s): 20z, 40z, 80z, 16oz, 32oz, 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other * Container Type Codes S254828

A. None E. HCL
B. HNO₃ F. MeOH
H₂SO₄ G. Na₂S₂O₃ F
D. NaOH H. NaHSO₄
O. ♣ Preservative Type Codes I. Ice
J. MCAA
K. ZnAc&NaOH
J. L Asbc Acid&NaOH

Hold San L) ghest TPH	iple Run PAH _ Only if
POSSES	BW 1
/ Waste Water Drinking Water Surface Water Ocean/Sea Water Product-Liquid	^ Matrix T
= → o > ≶ ¢	^ \$
Wipe Wipe Air Oil Tissue	e Codes

Catalina Villa Sampler Name:

Semi-Annual Annual Circle One Event: Daily

Weekly

Monthly

Quartely

Example Volatiles by 8260

TPH 8015M

BTEX

CI

Quote #:

Collect Date

Collect

Matrix

Field Filtered

Integrity OK (Y/N)

Total # of containers

Lab Only:

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×

× ×

×

×

Sample #

Invoice To:

Ralph Tijerina, Goodnight Midstream

Project ID:

Wrigley to Piper Lance Crenshaw

> Email: State: NM

pm@etechenv.com

GC

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GC

ANALYSES REQUESTED

<u>유</u>

Address:

3100 Plains Hwy

Fax: Phone:

(575)396-1429 (575)396-2378

TAT Work Days = D

Need results by:

Std (5-7D) 5Hrs 1D 2D 3D 4D 5D

7D 10D

140

Other

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S S REMARKS

Page 80 of 83

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800 CHAIN OF CUSTODY RECORD Field billable Hrs: LAB W.O#: VA Vial Amber ES VC Vial Clear TS VC Vial Clear TS CP Vial Pre-preserved AC GA Glass Amber ZB GC Glass Clear ZB PA Plastic Amber PC Air Canister Tedlar Bag Zip Lock Bag Plastic Clear

			_		-	OC (0-10) OTIS	70 70 70	30 40 30 10 TO	U 14U Officer		1 40ml 125 ml 250 ml 500 ml 1 Other	_
City:	Lovington	State:	te: NM Zip:	88260				0			** Preservative Type Codes	Codes
PM/Attn:	Lance Crenshaw	Email:		pm@etechenv.com	Cont Type* GC	GC					A None E. HCL I. Ice	
Project ID:	Wrigley to Piper		PO#:	PAA-C. Bryant		\dashv	- 8				B. HNO ₃ F. MeOH J. MCAA H ₂ SO ₄ G. Na ₂ S ₂ O ₃ K. ZnAc&naOH D. NaOH H. NaHSO ₄ L Asbc Acid8	MCAA C. Ac&NaOH Asbc Acid&NaOH
Invoice To:	Ralph Tijerina, Goodnight Midstream	-	Quote #	9#:	60					P/AH		
Sampler Name: Catalina Villa		Circle One Event: Daily Semi-Annual Annual	ant: Daily Weekly Annual N/A	dy Monthly Quartely	mple	ΓEX	CI		************	Sample Run	GW Ground Water S WW Waste Water W DW Drinking Water A	Soil/Sediment/Solid Wipe Air
mple#	Sample ID	Collect C	Collect Matrix	Field Filtered Integrity OK (Y/N) Total # of	Volatile	В.				CALL)	Surface Water O Ocean/Sea Water T Product-Liquid U Product-Solid B	
Sa					# Cont Lab Only:	ıly:					Othe	
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4	FS 96	12/19/2019 1	12:40	1	×	×	×					
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8	SW 40	12/19/2019	8:10		×	×	×					
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	Program / Clean-up	STATE for	STATE for Certs & Regs		QA/QC Level & Certification	ш	EDDs	COC & Labels	Coolers	Temp *C	Lab Use Only YES	S NO NA
Other:	DW NPDES LPST DryCin	FL TX GA NC S	SC NJ PA OK LA	LA 1 2 3 4 CLP NELAC DoD-ELAP	AFCEE QAPP Other.	ADaPT SE	SEDD ERPIMS	Match Incomplete Absent Unclear	1 2	3 O.Z	Non-Conformances found? Samples intact upon arrival?	
120	Kelinquished by		Affiliation 5 / /	Date / / // // //	Time	Recei	yed b	Affiliation	Date	Time	Received on Wet Ice?	
6/2			1.24	4100 11	19.75	重			DXX-10	72.20	Received within holding time? Custody seals intact?	
3							7		1160		VOCs rec'd w/o headspace? Proper containers used?	
4											pH verified-acceptable, excl VOCs? Received on time to meet HTs?	
# A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330 C.O.C. Serial # TTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099	अर्थ Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San An अ ^{TS} Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649	Dallas 214-902-0300 300 Lakeland 863-646	12-0300 Hou 863-646-852	Houston 281-242-4200 Odessa 432-563-1800 San An -8526 Tampa 803-543-8099 Philadelphia 610-955-5649)0 Odessa 432-{ 8099 Philadelph	ia 610-955		onio 210-509-3334 Phoenix 6 South Carolina 803-543-8099	tonio 210-509-3334 Phoenix 602-437-0330	37-0330	C.O.C. Serial #	

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LPST

DryCh

. TX GA NC

SC NJ PA OK LA Affiliation

> 1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other: QA/QC Level & Certification

ADaPT SEDD XLS Other:

ERPIMS

Match Incomplete Absent Unclear COC & Labels

Coolers N

Temp °C 30-8

EDDs

Received by

Affiliation

2-97

Labeled with proper preservatives? Received within holding time?

pH verified-acceptable, excl VOCs

/OCs rec'd w/o headspace?

Received on time to meet HTs?

Samples intact upon arrival?

Non-Conformances found? Lab Use Only

Received on Wet Ice?

04:4 Time STATE for Certs & Regs

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WWN1D EWN1 SW39 SW38B **SW37**

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SW35

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REMARKS		# Cont Lab Only:				
SW Surface Water O Oil OW OceanSea Water T Tissue PL Product-Quid U Urine PS Product-Solid B Blood St. Sludge Other		Volatile:	Pield Flitered Integrity OK (Y/N) Total # of containers	Collect Collect Date Time	Sample ID	Sample#
GW Ground Water S Soil/Sediment/Soild WW Waste Water W Wipe	Sample Run	imple s by 82 8015M	Circle One Event: Daily Weekly Monthly Quartely Semi-Annual Annual N/A	Circle One Event: Daily Semi-Annual Annual I	Sampler Name: Catalina Villa	Samp Catali
0.	PAH	60	Quote #:	3	invoice To: Ralph Tijerina, Goodnight Midstream	Invoic
HNO ₃ F. MeOH SO ₄ G. Na ₂ S ₂ O ₃ K. NaOH H. NaHSO ₄		_	PO#:		ect ID: Wrigley to Piper	Project ID:
A. None E. HCL I. Ice		^{сын Туре*} GC GC	pm@etechenv.com %c	Email:	Attn: Lance Crenshaw	PM/Attn:
** Preservative Type Codes			Zip: 88260	State: NM	Lovington	ÇİV
Size(s): 20z, 40z, 80z, 160z, 32oz, 1Gal 40ml 125 ml 250 ml 500 ml 41 Othor	4D 5D 7D 10D 14D Off	ㅗ	Fax: (575)396-1429	-	ress: 3100 Plains Hwy.	Address:
Plastic Clear	Time:	TAT Work Days = D	Phone: (575)396-2378		Company: Etech Environmental	Comp
S E E E	Field billable Hrs :				bertos Badbochedishy	Englicopae
VA Vial Amber ES Encore Sampler VC Vial Clear TS TerraCore Sampler VP Vial Pre-preserved AC Air Canistre		Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West i-20 East Odessa, TX 79765 (432)563-1800)240-4200 Odessa: 12600 We	Dr. Stafford, TX 77477 (281	3	5
* Container Type Codes	Page 1 of 1	Y RECORD	CHAIN OF CUSTODY RECORD	CHA	GNCO	

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330 C.O.C. Serial #

TS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and selection of the conditions unless for such data are paid in full.

Revision Date: Nov 12, 2009

CES NO NIA



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 12/23/2019 11:30:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 647357

Temperature Measuring device used: R8

Sample Receipt (Checklist Comments
#1 *Temperature of cooler(s)?	.8
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A
* Must be completed for after-hours delivery of samples prior Analyst: PH Device/Lot#:	to placing in the refrigerator
Checklist completed by: Brianna Teel	Date: <u>12/23/2019</u>
Checklist reviewed by: Jessica Warner	Date: 12/23/2019

Jessica Kramer

Analytical Report 647939

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry
Wrigley to Piper Pipeline

13-JAN-20

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)





13-JAN-20

Project Manager: Joel Lowry

Etech Environmental & Safety Solution, Inc

P.O. Box 8469 Midland, TX 79708

Reference: XENCO Report No(s): 647939

Wrigley to Piper Pipeline

Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 647939. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 647939 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 647939



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SFFL1	S	12-30-19 00:00		647939-001
SFFL2	S	12-30-19 00:00		647939-002
SFFL3	S	12-31-19 00:00		647939-003
SFFL4	S	12-31-19 00:00		647939-004
SFWW1	S	12-30-19 00:00		647939-005
SFWW2	S	12-30-19 00:00		647939-006
SFWW3	S	12-31-19 00:00		647939-007
SFWW4	S	12-31-19 00:00		647939-008
WW12	S	12-30-19 00:00		647939-009
EW15	S	12-30-19 00:00		647939-010
SFEW1	S	12-30-19 00:00		647939-011
SFEW2	S	12-30-19 00:00		647939-012
SFEW3	S	12-31-19 00:00		647939-013
SFE4	S	12-31-19 00:00		647939-014

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wrigley to Piper Pipeline

Project ID:

Report Date:

13-JAN-20

Work Order Number(s): 647939 Date Received: 01/06/2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3112472 Chloride by EPA 300

Lab Sample ID 647940-006 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix

interference. Samples in the analytical batch are: 647939-010, -011, -012, -013, -014.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3112996 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFFL1

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-001

Date Collected: 12.30.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112470

Date Prep: 01.06.20 14.30

Prep seq: 7693775

Paramet	ter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor	
Chloride		16887-00-6	36.8	5.03	0.864	mg/kg	01.06.20 21:08	1	

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

DVM

% Moist:

Tech:

DVM

Seq Number: 3112551

Date Prep: 01.06.20 14.00

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.06.20 17:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.06.20 17:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.06.20 17:00	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	01.06.20 17:00	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogue	, o 22000 to 23	2	C11145
1-Chlorooctane	116	70 - 135	%
o-Terphenyl	114	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

MIT

% Moist:

Tech:

MIT

Seq Number: 3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Prep seq: 7694133

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.0186	0.0186	0.00842	mg/kg	01.10.20 22:18	U	19
Toluene	108-88-3	< 0.0186	0.0186	0.00436	mg/kg	01.10.20 22:18	U	19
Ethylbenzene	100-41-4	< 0.0186	0.0186	0.00574	mg/kg	01.10.20 22:18	U	19
m,p-Xylenes	179601-23-1	< 0.0372	0.0372	0.00635	mg/kg	01.10.20 22:18	U	19
o-Xylene	95-47-6	< 0.0186	0.0186	0.00635	mg/kg	01.10.20 22:18	U	19
Total Xylenes	1330-20-7	< 0.0186		0.00635	mg/kg	01.10.20 22:18	U	
Total BTEX		< 0.0186		0.00436	mg/kg	01.10.20 22:18	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
4-Bromofluorobenzene	82	68 - 120	%		
a,a,a-Trifluorotoluene	94	71 - 121	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFFL2

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-002

Date Collected: 12.30.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112470

Date Prep: 01.06.20 14.30

Prep seq: 7693775

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor
Chloride	16887-00-6	576	4.96	0.852	mg/kg	01.06.20 21:15	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

DVM

% Moist:

Tech:

DVM

Seq Number: 3112551

Date Prep: 01.06.20 14.00

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.06.20 18:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.06.20 18:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.06.20 18:03	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.06.20 18:03	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

o a constant of the constant o	•	
1-Chlorooctane	117	70 - 135 %
o-Terphenyl	117	70 - 135 %

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

MIT

% Moist:

Tech:

MIT

Seq Number: 3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Prep seq: 7694133

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.0188	0.0188	0.00848	mg/kg	01.10.20 22:42	U	19
Toluene	108-88-3	< 0.0188	0.0188	0.00439	mg/kg	01.10.20 22:42	U	19
Ethylbenzene	100-41-4	< 0.0188	0.0188	0.00578	mg/kg	01.10.20 22:42	U	19
m,p-Xylenes	179601-23-1	< 0.0375	0.0375	0.00640	mg/kg	01.10.20 22:42	U	19
o-Xylene	95-47-6	< 0.0188	0.0188	0.00640	mg/kg	01.10.20 22:42	U	19
Total Xylenes	1330-20-7	< 0.0188		0.00640	mg/kg	01.10.20 22:42	U	
Total BTEX		< 0.0188		0.00439	mg/kg	01.10.20 22:42	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
4-Bromofluorobenzene	80	68 - 120	%		
a,a,a-Trifluorotoluene	93	71 - 121	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFFL3

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-003

Date Collected: 12.31.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

% Moist:

CHE

Tech:

Tech:

CHE

Seq Number: 3112470

Date Prep: 01.06.20 14.30

Prep seq: 7693775

Para	ameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Di	l Factor
Chlo	ride	16887-00-6	445	4.95	0.850	mg/kg	01.06.20 21:35		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

DVM

% Moist:

DVM

Seq Number: 3112551

Date Prep: 01.06.20 14.00

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.06.20 18:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.06.20 18:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.06.20 18:24	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.06.20 18:24	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogue	/ o Accovery	Zimus Cinus
1-Chlorooctane	116	70 - 135 %
o-Terphenyl	117	70 - 135 %

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

MIT

% Moist:

Tech:

MIT

Seq Number: 3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto			
Benzene	71-43-2	< 0.0180	0.0180	0.00813	mg/kg	01.10.20 23:05	U	18			
Toluene	108-88-3	< 0.0180	0.0180	0.00421	mg/kg	01.10.20 23:05	U	18			
Ethylbenzene	100-41-4	< 0.0180	0.0180	0.00554	mg/kg	01.10.20 23:05	U	18			
m,p-Xylenes	179601-23-1	< 0.0360	0.0360	0.00613	mg/kg	01.10.20 23:05	U	18			
o-Xylene	95-47-6	< 0.0180	0.0180	0.00613	mg/kg	01.10.20 23:05	U	18			
Γotal Xylenes	1330-20-7	< 0.0180		0.00613	mg/kg	01.10.20 23:05	U				
Total BTEX		< 0.0180		0.00421	mg/kg	01.10.20 23:05	U				

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag	
4-Bromofluorobenzene	81	68 - 120	%			
a,a,a-Trifluorotoluene	96	71 - 121	%			





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFFL4

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-004

Date Collected: 12.31.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112470

Date Prep: 01.06.20 14.30

Prep seq: 7693775

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	202	4.95	0.850	mg/kg	01.06.20 21:41		1

Seq Number: 3112551

Analytical Method: TPH By SW8015 Mod

Prep Method:

Tech:

8015

DVM

Analyst:

DVM

% Moist:

Date Prep: 01.06.20 14.00

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.06.20 18:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.06.20 18:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.06.20 18:45	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	01.06.20 18:45	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

70 - 135 1-Chlorooctane 115 % o-Terphenyl 116 70 - 135 %

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

% Moist:

Tech:

MIT

Seq Number: 3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Fact
Benzene	71-43-2	< 0.0197	0.0197	0.00890	mg/kg	01.10.20 23:29	U	20
Toluene	108-88-3	< 0.0197	0.0197	0.00461	mg/kg	01.10.20 23:29	U	20
Ethylbenzene	100-41-4	< 0.0197	0.0197	0.00606	mg/kg	01.10.20 23:29	U	20
m,p-Xylenes	179601-23-1	< 0.0394	0.0394	0.00671	mg/kg	01.10.20 23:29	U	20
o-Xylene	95-47-6	< 0.0197	0.0197	0.00671	mg/kg	01.10.20 23:29	U	20
Total Xylenes	1330-20-7	< 0.0197		0.00671	mg/kg	01.10.20 23:29	U	
Total BTEX		< 0.0197		0.00461	mg/kg	01.10.20 23:29	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
4-Bromofluorobenzene		80		68 -	120 %	ó		
a,a,a-Trifluorotoluene		94		71 -	121 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFWW1

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-005

Date Collected: 12.30.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300 Analyst:

% Moist:

Prep Method: E300P

Tech:

Tech:

CHE

CHE

Date Prep: 01.06.20 14.30

Seq Number: 3112470

Prep seq: 7693775

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<4.95	4.95	0.850	mg/kg	01.06.20 21:48	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

DVM

% Moist:

DVM

Seq Number: 3112551

Date Prep: 01.06.20 14.00

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.06.20 19:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.06.20 19:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.06.20 19:07	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.06.20 19:07	U	

Surrogate	% Recovery	Limits Units
1-Chlorooctane	114	70 - 135 %
o-Terphenyl	116	70 - 135 %

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

MIT

% Moist:

Tech:

MIT

Analysis Date

Flag

Seq Number: 3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.0198	0.0198	0.00897	mg/kg	01.10.20 23:53	U	20
Toluene	108-88-3	< 0.0198	0.0198	0.00464	mg/kg	01.10.20 23:53	U	20
Ethylbenzene	100-41-4	< 0.0198	0.0198	0.00611	mg/kg	01.10.20 23:53	U	20
m,p-Xylenes	179601-23-1	< 0.0397	0.0397	0.00677	mg/kg	01.10.20 23:53	U	20
o-Xylene	95-47-6	< 0.0198	0.0198	0.00677	mg/kg	01.10.20 23:53	U	20
Total Xylenes	1330-20-7	< 0.0198		0.00677	mg/kg	01.10.20 23:53	U	
Total BTEX		< 0.0198		0.00464	mg/kg	01.10.20 23:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
4-Bromofluorobenzene	79	68 - 120	%		
a,a,a-Trifluorotoluene	90	71 - 121	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFWW2

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-006

Date Collected: 12.30.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112470

Date Prep: 01.06.20 14.30

Prep seq: 7693775

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor
Chloride	16887-00-6	482	5.05	0.867	mg/kg	01.06.20 21:55	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

DVM

% Moist:

Tech:

DVM

Seq Number: 3112551

Date Prep: 01.06.20 14.00

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.06.20 19:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.06.20 19:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.06.20 19:28	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	01.06.20 19:28	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units	Analysis
1-Chlorooctane	130	70 - 135	%	
o-Terphenyl	133	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

MIT

% Moist:

Tech:

MIT

Seq Number: 3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.0200	0.0200	0.00902	mg/kg	01.11.20 00:17	U	20
Toluene	108-88-3	< 0.0200	0.0200	0.00467	mg/kg	01.11.20 00:17	U	20
Ethylbenzene	100-41-4	< 0.0200	0.0200	0.00615	mg/kg	01.11.20 00:17	U	20
m,p-Xylenes	179601-23-1	< 0.0399	0.0399	0.00681	mg/kg	01.11.20 00:17	U	20
o-Xylene	95-47-6	< 0.0200	0.0200	0.00681	mg/kg	01.11.20 00:17	U	20
Total Xylenes	1330-20-7	< 0.0200		0.00681	mg/kg	01.11.20 00:17	U	
Total BTEX		< 0.0200		0.00467	mg/kg	01.11.20 00:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
4-Bromofluorobenzene	85	68 - 120	%		
a,a,a-Trifluorotoluene	100	71 - 121	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFWW3

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-007

Date Collected: 12.31.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Date Prep: 01.06.20 14.30

Seq Number: 3112470

Prep seq: 7693775

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	1380	5.03	0.864	mg/kg	01.06.20 22:01	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

DVM

% Moist:

Tech:

DVM

Seq Number: 3112551

Date Prep: 01.06.20 14.00

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	01.06.20 19:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	01.06.20 19:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	01.06.20 19:49	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	01.06.20 19:49	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

	•		
1-Chlorooctane	128	70 - 135	%
o-Terphenyl	130	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

MIT

% Moist:

Tech:

MIT

Seq Number: 3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.0182	0.0182	0.00822	mg/kg	01.11.20 00:41	U	18
Toluene	108-88-3	< 0.0182	0.0182	0.00425	mg/kg	01.11.20 00:41	U	18
Ethylbenzene	100-41-4	< 0.0182	0.0182	0.00560	mg/kg	01.11.20 00:41	U	18
m,p-Xylenes	179601-23-1	< 0.0364	0.0364	0.00620	mg/kg	01.11.20 00:41	U	18
o-Xylene	95-47-6	< 0.0182	0.0182	0.00620	mg/kg	01.11.20 00:41	U	18
Total Xylenes	1330-20-7	< 0.0182		0.00620	mg/kg	01.11.20 00:41	U	
Total BTEX		< 0.0182		0.00425	mg/kg	01.11.20 00:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
4-Bromofluorobenzene	79	68 - 120	%		
a,a,a-Trifluorotoluene	92	71 - 121	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFWW4

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-008

Date Collected: 12.31.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112470

Date Prep: 01.06.20 14.30

Prep seq: 7693775

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor
Chloride	16887-00-6	103	5.00	0.858	mg/kg	01.06.20 22:08	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

DVM

% Moist:

Tech:

DVM

Seq Number: 3112551

Date Prep: 01.06.20 14.00

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	01.06.20 20:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.06.20 20:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.06.20 20:11	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	01.06.20 20:11	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	114	70 - 135	%	
o-Terphenyl	114	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

MIT

% Moist:

Tech:

MIT

Flag

Seq Number: 3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.0171	0.0171	0.00774	mg/kg	01.11.20 01:05	U	17
Toluene	108-88-3	< 0.0171	0.0171	0.00401	mg/kg	01.11.20 01:05	U	17
Ethylbenzene	100-41-4	< 0.0171	0.0171	0.00527	mg/kg	01.11.20 01:05	U	17
m,p-Xylenes	179601-23-1	< 0.0342	0.0342	0.00584	mg/kg	01.11.20 01:05	U	17
o-Xylene	95-47-6	< 0.0171	0.0171	0.00584	mg/kg	01.11.20 01:05	U	17
Total Xylenes	1330-20-7	< 0.0171		0.00584	mg/kg	01.11.20 01:05	U	
Total BTEX		< 0.0171		0.00401	mg/kg	01.11.20 01:05	U	
Total BTEX		< 0.0171		0.00401	mg/kg	01.11.20 01:05	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
4-Bromofluorobenzene	78	68 - 120	%		
a,a,a-Trifluorotoluene	94	71 - 121	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

WW12

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-009

Date Collected: 12.30.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech: CHE

Seq Number:

3112470

Date Prep: 01.06.20 14.30

Prep seq: 7693775

CAS Dil Factor Analysis Result MQL SDL Flag **Parameter** Units Number Date Chloride 16887-00-6 12.4 5.02 0.862 01.06.20 22:15 mg/kg

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

DVM

% Moist:

Tech:

DVM

Seq Number: 3112551

Date Prep: 01.06.20 14.00

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	01.06.20 20:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.06.20 20:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.06.20 20:31	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	01.06.20 20:31	U	

Surrogate	% Recovery	Limits	Units	
1-Chlorooctane	116	70 - 135	%	
o-Terphenyl	116	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

MIT

% Moist:

Tech:

MIT

Analysis Date

Flag

Seq Number:

3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.0198	0.0198	0.00895	mg/kg	01.11.20 01:29	U	20
Toluene	108-88-3	< 0.0198	0.0198	0.00463	mg/kg	01.11.20 01:29	U	20
Ethylbenzene	100-41-4	< 0.0198	0.0198	0.00610	mg/kg	01.11.20 01:29	U	20
m,p-Xylenes	179601-23-1	< 0.0396	0.0396	0.00675	mg/kg	01.11.20 01:29	U	20
o-Xylene	95-47-6	< 0.0198	0.0198	0.00675	mg/kg	01.11.20 01:29	U	20
Total Xylenes	1330-20-7	< 0.0198		0.00675	mg/kg	01.11.20 01:29	U	
Total BTEX		< 0.0198		0.00463	mg/kg	01.11.20 01:29	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
4-Bromofluorobenzene	80	68 - 120	%		
a,a,a-Trifluorotoluene	95	71 - 121	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

EW15

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-010

Date Collected: 12.30.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number:

3112472

Date Prep: 01.06.20 14.40

Prep seq: 7693776

CAS Dil Factor Analysis MQL SDL Flag **Parameter** Result Units Number Date Chloride 16887-00-6 823 5.02 0.862 01.06.20 22:54 mg/kg

Analytical Method: TPH By SW8015 Mod

Prep Method:

Tech:

8015

Analyst:

DVM

% Moist:

Date Prep: 01.06.20 14.00

DVM

Seq Number: 3112551

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.06.20 20:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.06.20 20:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.06.20 20:52	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.06.20 20:52	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits Units	
1-Chlorooctane	115	70 - 135 %	
o-Terphenyl	117	70 - 135 %	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

MIT

% Moist:

Tech:

MIT

Seq Number: 3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.0195	0.0195	0.00879	mg/kg	01.11.20 03:04	U	19
Toluene	108-88-3	< 0.0195	0.0195	0.00455	mg/kg	01.11.20 03:04	U	19
Ethylbenzene	100-41-4	< 0.0195	0.0195	0.00599	mg/kg	01.11.20 03:04	U	19
m,p-Xylenes	179601-23-1	< 0.0389	0.0389	0.00663	mg/kg	01.11.20 03:04	U	19
o-Xylene	95-47-6	< 0.0195	0.0195	0.00663	mg/kg	01.11.20 03:04	U	19
Total Xylenes	1330-20-7	< 0.0195		0.00663	mg/kg	01.11.20 03:04	U	
Total BTEX		< 0.0195		0.00455	mg/kg	01.11.20 03:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
4-Bromofluorobenzene	87	68 - 120	%		
a,a,a-Trifluorotoluene	97	71 - 121	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFEW1

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-011

Date Collected: 12.30.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

% Moist:

Prep Method: E300P

Analyst:

CHE

Tech:

CHE

Seq Number:

3112472

Date Prep: 01.06.20 14.40

Prep seq: 7693776

CAS Dil Factor Analysis MQL SDL Flag **Parameter** Result Units Number Date Chloride 16887-00-6 6.16 4.99 0.857 01.06.20 23:14 mg/kg

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

DVM

% Moist:

Tech:

DVM

Seq Number: 3112551

Date Prep: 01.06.20 14.00

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.06.20 21:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.06.20 21:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.06.20 21:34	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	01.06.20 21:34	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

	•		
1-Chlorooctane	109	70 - 135	%
o-Terphenyl	110	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

% Moist:

Tech:

MIT

Seq Number:

3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.0196	0.0196	0.00888	mg/kg	01.11.20 03:28	U	20
Toluene	108-88-3	< 0.0196	0.0196	0.00460	mg/kg	01.11.20 03:28	U	20
Ethylbenzene	100-41-4	< 0.0196	0.0196	0.00605	mg/kg	01.11.20 03:28	U	20
m,p-Xylenes	179601-23-1	< 0.0393	0.0393	0.00670	mg/kg	01.11.20 03:28	U	20
o-Xylene	95-47-6	< 0.0196	0.0196	0.00670	mg/kg	01.11.20 03:28	U	20
Total Xylenes	1330-20-7	< 0.0196		0.00670	mg/kg	01.11.20 03:28	U	
Total BTEX		< 0.0196		0.00460	mg/kg	01.11.20 03:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
4-Bromofluorobenzene	97	68 - 120	%		
a,a,a-Trifluorotoluene	117	71 - 121	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFEW2

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-012

Date Collected: 12.30.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

CHE

Tech:

Seq Number: 3112472

Date Prep: 01.06.20 14.40

Prep seq: 7693776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<4.97	4.97	0.853	mg/kg	01.06.20 23:21	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

DVM

% Moist:

Tech:

DVM

Seq Number: 3112551

Date Prep: 01.06.20 14.00

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	01.06.20 21:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	01.06.20 21:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	01.06.20 21:55	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	01.06.20 21:55	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

· ·	•	
1-Chlorooctane	114	70 - 135 %
o-Terphenyl	116	70 - 135 %

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

MIT

% Moist:

Tech:

MIT

Seq Number: 3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.0174	0.0174	0.00785	mg/kg	01.11.20 03:52	U	17
Toluene	108-88-3	< 0.0174	0.0174	0.00406	mg/kg	01.11.20 03:52	U	17
Ethylbenzene	100-41-4	< 0.0174	0.0174	0.00535	mg/kg	01.11.20 03:52	U	17
m,p-Xylenes	179601-23-1	< 0.0347	0.0347	0.00592	mg/kg	01.11.20 03:52	U	17
o-Xylene	95-47-6	< 0.0174	0.0174	0.00592	mg/kg	01.11.20 03:52	U	17
Total Xylenes	1330-20-7	< 0.0174		0.00592	mg/kg	01.11.20 03:52	U	
Total BTEX		< 0.0174		0.00406	mg/kg	01.11.20 03:52	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag	
4-Bromofluorobenzene	85	68 - 120	%			
a,a,a-Trifluorotoluene	100	71 - 121	%			





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFEW3

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-013

Date Collected: 12.31.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112472

Date Prep: 01.06.20 14.40

Prep seq: 7693776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	193	4.96	0.852	mg/kg	01.06.20 23:28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

DVM

% Moist:

Tech:

DVM

Seq Number: 3112551

Date Prep: 01.06.20 14.00

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.06.20 22:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.06.20 22:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.06.20 22:15	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.06.20 22:15	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

~ ·	, , ,		
1-Chlorooctane	110	70 - 135	%
o-Terphenyl	110	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

MIT

% Moist:

Tech:

MIT

Seq Number: 3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.0171	0.0171	0.00774	mg/kg	01.11.20 04:15	U	17
Toluene	108-88-3	< 0.0171	0.0171	0.00401	mg/kg	01.11.20 04:15	U	17
Ethylbenzene	100-41-4	< 0.0171	0.0171	0.00527	mg/kg	01.11.20 04:15	U	17
m,p-Xylenes	179601-23-1	< 0.0342	0.0342	0.00584	mg/kg	01.11.20 04:15	U	17
o-Xylene	95-47-6	< 0.0171	0.0171	0.00584	mg/kg	01.11.20 04:15	U	17
Total Xylenes	1330-20-7	< 0.0171		0.00584	mg/kg	01.11.20 04:15	U	
Total BTEX		< 0.0171		0.00401	mg/kg	01.11.20 04:15	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
4-Bromofluorobenzene	81	68 - 120	%		
a,a,a-Trifluorotoluene	94	71 - 121	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFE4

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647939-014

Date Collected: 12.31.19 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112472

Date Prep: 01.06.20 14.40

Prep seq: 7693776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	18.1	5.04	0.865	mg/kg	01.06.20 23:34	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

DVM

% Moist:

Tech:

DVM

Seq Number: 3112551

Date Prep: 01.06.20 14.00

Prep seq: 7693789

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.06.20 22:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.06.20 22:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.06.20 22:36	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	01.06.20 22:36	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

1-Chlorooctane 113 70 - 135 % o-Terphenyl 113 70 - 135 %

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

MIT

% Moist:

Tech:

MIT

Seq Number: 3112996

Date Prep: 01.10.20 10.30

Subcontractor: SUB: T104704219-19-21

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.0195	0.0195	0.00881	mg/kg	01.10.20 20:43	U	19
Toluene	108-88-3	< 0.0195	0.0195	0.00456	mg/kg	01.10.20 20:43	U	19
Ethylbenzene	100-41-4	< 0.0195	0.0195	0.00600	mg/kg	01.10.20 20:43	U	19
m,p-Xylenes	179601-23-1	< 0.0390	0.0390	0.00665	mg/kg	01.10.20 20:43	U	19
o-Xylene	95-47-6	< 0.0195	0.0195	0.00665	mg/kg	01.10.20 20:43	U	19
Total Xylenes	1330-20-7	< 0.0195		0.00665	mg/kg	01.10.20 20:43	U	
Total BTEX		< 0.0195		0.00456	mg/kg	01.10.20 20:43	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
4-Bromofluorobenzene	81	68 - 120	%		
a,a,a-Trifluorotoluene	93	71 - 121	%		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

7693775-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693775-1-BLK

Date Collected:

Date Received:

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number:

3112470

Date Prep: 01.06.20 14.30

Prep seq: 7693775

CAS Analysis Dil Factor MQL SDL Flag **Parameter** Result Units Number Date Chloride 16887-00-6 < 5.00 5.00 0.858 01.06.20 18:55 mg/kg

Sample Id:

7693776-1-BLK

Solid

Sample Depth:

Matrix:

Lab Sample Id: 7693776-1-BLK

Date Collected:

Date Received: Prep Method:

Analytical Method: Chloride by EPA 300

% Moist:

Tech:

E300P **CHE**

Analyst: Seq Number:

CHE 3112472

Date Prep: 01.06.20 14.40

Prep seq: 7693776

CAS Analysis Dil Factor Result SDL Units **Parameter** MQL Number Date < 5.00 0.858 Chloride 16887-00-6 5.00 mg/kg 01.06.20 22:35

Sample Id:

7693789-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693789-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

% Moist:

Prep Method: Tech:

8015

Analyst:

DVM

DVM

Analysis Date

Flag

Seq Number: 3112551

Date Prep: 01.06.20 14.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	01.06.20 15:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.06.20 15:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.06.20 15:57	U	1

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	98	70 - 135	%
o-Terphenyl	98	70 - 135	%





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

7694133-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7694133-1-BLK

a,a,a-Trifluorotoluene

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

% Moist:

Tech:

MIT

MIT

71 - 121

Seq Number: 3112996

Subcontractor: SUB: T104704219-19-21

Date Prep: 01.10.20 10.30

Prep seq: 7694133

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.0200	0.0200	0.00904	mg/kg	01.10.20 20:20	U	20
Toluene	108-88-3	< 0.0200	0.0200	0.00468	mg/kg	01.10.20 20:20	U	20
Ethylbenzene	100-41-4	< 0.0200	0.0200	0.00616	mg/kg	01.10.20 20:20	U	20
m,p-Xylenes	179601-23-1	< 0.0400	0.0400	0.00682	mg/kg	01.10.20 20:20	U	20
o-Xylene	95-47-6	< 0.0200	0.0200	0.00682	mg/kg	01.10.20 20:20	U	20
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
4-Bromofluorobenzene		103		68 -	120 %	5		

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Flagging Criteria



- Page 519 of 744
- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Form 2 - Surrogate Recoveries

Project Name: Wrigley to Piper Pipeline

Work Orders 647939,

Project ID:

Lab Batch #: 3112996

Sample: 7694133-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/10/20 18:43	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
4-Bromofluorobenzene	0.0829	0.100	83	68-120			
a,a,a-Trifluorotoluene	1.79	2.00	90	71-121			

Lab Batch #:3112996

Sample: 7694133-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 01/10/20 19:08	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
4-Bromofluorobenzene	0.0850	0.100	85	68-120		
a,a,a-Trifluorotoluene	1.85	2.00	93	71-121		

Lab Batch #:3112996

Sample: 7694133-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/10/20 20:20	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
4-Bromofluorobenzene	0.103	0.100	103	68-120		
a,a,a-Trifluorotoluene	2.32	2.00	116	71-121		

Lab Batch #: 3112996

Sample: 647939-014 S / MS

Batch:

Matrix:Soil

Units: mg/kg Date Analyzed: 01/10/20 21:07	SU	RROGATE RI	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
4-Bromofluorobenzene	0.0780	0.100	78	68-120	
a,a,a-Trifluorotoluene	1.89	1.98	95	71-121	

Lab Batch #:3112996

Sample: 647939-014 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 01/10/20 21:30	SU	RROGATE RI	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0747	0.100	75	68-120	·
a,a,a-Trifluorotoluene	1.82	1.99	91	71-121	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Wrigley to Piper Pipeline

Work Orders 647939,

Project ID:

Lab Batch #:3112551

Sample: 7693789-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/06/20 15:57	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			[10]		
1-Chlorooctane	97.6	100	98	70-135	
o-Terphenyl	48.9	50.0	98	70-135	

Lab Batch #:3112551

Sample: 7693789-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 01/06/20 16:18	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	53.4	50.0	107	70-135	

Lab Batch #:3112551

Sample: 7693789-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/06/20 16:39	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	53.2	50.0	106	70-135	

Lab Batch #:3112551

Sample: 647939-001 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 01/06/20 17:21	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	123	99.7	123	70-135	
o-Terphenyl	59.2	49.9	119	70-135	

Lab Batch #:3112551

Sample: 647939-001 SD / MSD

Batch: 1

Matrix:Soil

Units: mg/kg Date Analyzed: 01/06/20 17:42	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	99.9	124	70-135	
o-Terphenyl	59.6	50.0	119	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

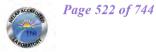
All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



Project Name: Wrigley to Piper Pipeline

Work Order #: 647939

Project ID:

Analyst:

MIT

Date Prepared: 01/10/2020

Batch #: 1

Date Analyzed: 01/10/2020

Lab Batch ID: 3112996

Sample: 7694133-1-BKS

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.0200	2.00	1.93	97	2.00	1.94	97	1	55-120	20	
Toluene	< 0.0200	2.00	1.89	95	2.00	1.86	93	2	77-120	20	
Ethylbenzene	< 0.0200	2.00	1.95	98	2.00	1.93	97	1	77-120	20	
m,p-Xylenes	< 0.0400	4.00	3.91	98	4.00	3.88	97	1	78-120	20	
o-Xylene	< 0.0200	2.00	1.97	99	2.00	1.96	98	1	78-120	20	

Analyst:

CHE

Date Prepared: 01/06/2020

Date Analyzed: 01/06/2020

Lab Batch ID: 3112470

Sample: 7693775-1-BKS

Batch #: 1

Matrix: Solid

Units:

nits:	mg/kg		BLAN	K/BLANK S	SPIKE / E	BLANK S	SPIKE DUPI	LICATE 1	RECOVE	RY STUD	Y	
	Chloride by EPA 300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Anal	lytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	<u>}</u>	< 0.858	250	256	102	250	258	103	1	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Page 523 of 744

Project Name: Wrigley to Piper Pipeline

Work Order #: 647939

Project ID:

Analyst:

CHE

Date Prepared: 01/06/2020

Date Analyzed: 01/06/2020

Lab Batch ID: 3112472

Sample: 7693776-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLAN.	K/BLANK S	SPIKE / B	SLANK S	PIKE DUPL	ICATE 1	RECOVE	RY STUD	Y
Cuilro	D11-	Dlank	G 71	Disasts	DIL C-L		Cantanal	Control

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	< 0.858	250	266	106	250	265	106	0	90-110	20	

Analyst:

DVM

Date Prepared: 01/06/2020

Date Analyzed: 01/06/2020

Lab Batch ID: 3112551

Sample: 7693789-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

Units: mg/kg		BLAN	K/BLANK	SPIKE / I	BLANK S	PIKE DUPI	LICATE 1	RECOVE	RY STUD	Y	
TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[10]	[C]	[D]	[12]	Result [1]	[0]				
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	885	89	1000	896	90	1	70-135	20	
Diesel Range Organics (DRO)	<15.0	1000	903	90	1000	891	89	1	70-135	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Page 524 of 744

Project Name: Wrigley to Piper Pipeline

Work Order #:

647939 3112996

QC- Sample ID: 647939-014 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

01/10/2020

Date Prepared: 01/10/2020

Analyst: MIT

Reporting Units:

mg/kg

Analyst: Mil

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	%R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Benzene	< 0.0198	1.98	1.74	88	1.99	1.82	91	4	54-120	25	
Toluene	< 0.0198	1.98	1.71	86	1.99	1.80	90	5	57-120	25	
Ethylbenzene	< 0.0198	1.98	1.71	86	1.99	1.81	91	6	58-131	25	
m,p-Xylenes	< 0.0397	3.97	3.41	86	3.98	3.61	91	6	62-124	25	
o-Xylene	< 0.0198	1.98	1.68	85	1.99	1.81	91	7	62-124	25	

Lab Batch ID:

3112470

QC- Sample ID: 647938-022 S

Batch #:

Matrix: Soil

Date Analyzed:

01/06/2020

Date Prepared: 01/06/2020

Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	848	253	1090	96	253	1170	127	7	90-110	20	X

Lab Batch ID:

3112470

QC- Sample ID: 647938-025 S

Batch #:

Matrix: Soil

Date Analyzed:

01/06/2020

Date Prepared: 01/06/2020

Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

1

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	590	250	813	89	250	815	90	0	90-110	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*[(C-F)/(C+F)] Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Page 525 of 744

Project Name: Wrigley to Piper Pipeline

Work Order #:

647939

3112472 **QC- Sample ID:** 647939-010 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

01/06/2020

Date Prepared: 01/06/2020

Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	823	251	1080	102	251	1110	114	3	90-110	20	X

Lab Batch ID:

3112472

QC- Sample ID: 647940-006 S

Batch #:

l Matrix: Soil

Date Analyzed:

01/07/2020

Date Prepared: 01/06/2020

Analyst: CHE

CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	2.39	252	275	108	252	280	110	2	90-110	20	

Lab Batch ID:

3112551

QC- Sample ID: 647939-001 S

Batch #:

Matrix: Soil

Date Analyzed:

01/06/2020

Date Prepared: 01/06/2020

Analyst: DVM

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

1

TPH By SW8015 Mod	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Gasoline Range Hydrocarbons (GRO)	<15.0	997	904	91	999	917	92	1	70-135	20	
Diesel Range Organics (DRO)	<15.0	997	914	92	999	922	92	1	70-135	20	

CHAIN OF CITATORY DECOR

Laboratorics		Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800	Page 1	of 1	Vial Amber ES
→ 1000E				202 202 202 202 203 203 203 203 203 203	is renactive sampler P Vial Pre-preserved AC Air Canister A Glass Amber TB Tedlar Bag C Glass Clear 7B 7in Lock Ban
Company: Etech Environmental	Phone: (575)396-2378	TAT Work Days = D Ne	Need results by:		Plastic Amber PC Plastic Clear
Address: 3100 Plains Hwy.	Fax: (575)396-1429	<u>5</u>	1D 2D 3D 4D 5D 7D 10D 14D	Other	Size(s): 20z, 40z, 80z, 160z, 320z , 1Gal
City: Lovington State: NM	Zip: 88260		YSES REQUESTI	Cuici	*** Preservative Type Codes
PM/Attn: Joel Lowry Email:	pm@etechenv.com	CONT. Type. GC GC G	GC	A	None E HCl Ice
Project ID: Wrigley to Piper Pipeline		-		D.I 0	B. HNO3 F. MeOH J. MCAA C. H2SO4 G. Na2S2O3 K. ZnAc&NaOH D. NaOH H. NaHSO Ashs Acids NaoH
Invoice To: Ralph Tijerina, Goodnight Midstream	Quote #:	60	-	y If	
Sampler Name: Circle One Event: Daily Weekly Hilda Villa Semi-Annual Annual N/A	Weekly Monthly Quartely N/A	8015M EX			Matrix Type Ground Water S Waste Water W
	Macifix eld tered rgrity (Y/N)	TPH 8	C	L) ghest TP	
	F In Of	100000		(CA	SL Sludge
		# Cont Lab Only:			REMARKS
1 SFFL1 12/30/2020	Soil 1	×	×		
2 SFFL2 12/30/2020	Soil 1	×	×		
3 SFFL3 12/31/2020	Soil 1	×	×		
4 SFFL4 12/31/2020	Soil 1	×	×		
5 SFWW1 12/30/2020	Soil 1	×	×		
6 SFWW2 12/30/2020	Soil 1	×	×		
7 SFWW3 12/31/2020	Soil 1	×	×		
8 SFWW4 12/31/2020	Soil 1	×	×		
9 WW12 12/30/2020	Soil 1	×	×		
12		×	×		
SIAIE or	QA/QC Level		COC & Labels	Coolers Temp *C	Lab Use Only YES NO N/A
Relinquish	NELAC DoD-ELAP	Other: XLS Other:	PIMS Match Incomplete Absent Unclear 1	3 D.%	Non-Conformances found?
2	1/3/20	08:35 Em. Mai	1/21 10/2 1/2/		Received on Wet Ice?
22/8/p Carelle Mails	5 1/3/2n	1:07 17		N N	Custody seals intact?
3	, ,	1 9 0	\$		Proper containers used?
				Re	Received on time to meet HTs?
ত্রিক Laboratories: nobbs 5/5-392-/550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San An ইTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649	Houston 281-242-4200 Odessa -8526 Tampa 803-543-8099 Phila	Odessa 432-563-1800 San Antor 99 Philadelphia 610-955-5649 Sc	n Antonio 210-509-3334 Phoenix 602-437-0330 649 South Carolina 803-543-8099	02-437-0330	C.O.C. Serial #
il past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property services provided by Xenco remain the exclusive property services interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property services in the exclusive property services are serviced by Xenco remain the exclus	itory analytical data and reports ger	sting services provided by Xenco to c nerated by Xenco remain the exclusiv	lient under Xenco's standard terms and conditions unless prev e property of Xenco until invoices for such data are paid in full.	ttions unless previously agreed in wr ta are paid in full. Revisio	Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and of Xenco until invoices for such data are paid in full. Revision Date: Nov 12, 2009

	P	age 527 of 74
Address:	Company:	XC Labor
3100	Ē	
00	Etech	

CHAIN OF CHA	V OF CUSTOL)240-4200 Odessa: 12600 We	CUSTODY RECORD Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800			5 7 7 7	. ⊠ S. S.
₹ 1988				LAB W.O#:	W USI	VP Vial Pre-preserved AC Air Canister GA Glass Amber TB Tedlar Bag GC Glass Clear ZB Zip Lotte Bag PA Plastic Amber BC Direction Con-
Etech Environmental	Phone: (575)396-2378	TAT Work Days = [D Need results by:		Time:	
ess: 3100 Plains Hwy.	Fax: (575)396-1429	Std (5-7D)	Std (5-7D) 5Hrs 1D 2D 3D 4D	5D 7D 10D 14D		Size(s): 2oz, 4oz, 8oz, 16oz, 32oz , 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other
Lovington	Zip: 88260			SES REQUESTED		** Preservative Type Codes
PM/Attn: Joel Lowry Email:	pm@etechenv.com	Cont Type* GC GC	c GC			HCL
Project ID: Wrigley to Piper Pipeline	PO#: PAA-C. Bryant	-				B. HNO ₃ F. MeOH J. MCAA C H ₂ SO ₄ G. Na ₂ S ₂ O ₃ K. ZnAc&NaOH D. NaOH H. NaHSO ₄ L Asbc Acid&NaOH
Invoice To: Ralph Tijerina, Goodnight Midstream	Quote #:	60			PAH nly lf	A Matrix Tupo Codo
Sampler Name: Circle One Event: Daily Weekly Hilda Villa Semi-Annual Annual N/A	Weekly Monthly Quartely N/A	mple s by 82 8015M	CI			Ground Water Waste Water Drinking Water
# Sample ID Collect Collect Fime	Code > Field Filtered Integrity OK (Y/N) Total # of containers	Volatile TPH			Hole CALL) n Highest 1	SW Surface Water O Oil OW Ocean/Sea Water T Tissue PL Product-Liquid U Unice PS Product-Solid B Blood
S		# Cont Lab Only:				REMARKS
1 SFEW1 12/30/2020	Soil 1	×	X			
2 SFEW2 12/30/2020	Soil 1	×	X			
3 SFEW3 12/31/2020	Soil 1	×	×			
4 SFEW4 12/31/2020	Soil 1	×	×			
G						
6						
7						
8						
9						
Reg. Program / Clean-up Std STATE for		rtification	DDs	COC & Labels C	Coolers Temp *C	Lab Use Only YES NO NIA
Relinguished by	NELAC	E QAPP	SWIR	ete 1	3 0,8	Non-Conformances found?
201 MB - 60 - 56/6	6 1/2/20	7 35 : 80	Vacanaga na	1/2/	a lime	Labeled with proper preservatives?
20 2 PANORA I IN MICE	11/2/	1.00	Service Services		2000	Received within holding time?
11.61.2	0.410/1		ATT.			VOCs rec'd w/o headspace? Proper containers used? DH verified-acceptable excl VOCs?
4						Received on time to meet HTs?
©8&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San An STS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649	Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330 5-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099	0 Odessa 432-563-18 3099 Philadelphia 61	800 San Antonio 2 0-955-5649 South	tonio 210-509-3334 Phoenix 6 South Carolina 803-543-8099	502-437-0330 9	C.O.C. Serial #
Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and past due amounts share at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full. Revision Date: Nov 12, 2009	ient and Xenco for analytical and atory analytical data and reports of	testing services provided by ? generated by Xenco remain th	Xenco to client under Xenco ne exclusive property of Xer	o's standard terms and condition noo until invoices for such data	ns unless previously agreed in are paid in full. Revi	n writing. Terms of payment are Net 30 days, and ission Date: Nov 12, 2009
R						

IOS Number : **55759**

Date/Time: 01.09.2020 Brianna Teel Please send report to: Jessica Kramer Created by:

1211 W. Florida Ave Lab# From: Midland Address: Delivery Priority:

Lab# To: Air Bill No.: 777441642390 Lubbock E-Mail: jessica.kramer@xenco.com

Sample	Id Matr	ix Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
647939-00	01 S	SFFL1	12.30.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.13.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	
647939-00)2 S	SFFL2	12.30.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.13.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	
647939-00)3 S	SFFL3	12.31.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.14.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	
647939-00	04 S	SFFL4	12.31.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.14.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	
647939-00	05 S	SFWW1	12.30.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.13.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	
647939-00	06 S	SFWW2	12.30.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.13.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	
647939-00)7 S	SFWW3	12.31.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.14.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	
647939-00	08 S	SFWW4	12.31.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.14.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	
647939-00	99 S	WW12	12.30.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.13.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	
647939-0	0 S	EW15	12.30.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.13.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	
647939-01	1 S	SFEW1	12.30.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.13.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	
647939-01	2 S	SFEW2	12.30.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.13.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	
647939-0	3 S	SFEW3	12.31.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.14.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	
647939-01	4 S	SFE4	12.31.2019 00:00	SW8021B	BTEX by EPA 8021B	01.10.2020	01.14.2020 00:00	JKR	BR4FBZ BZ BZME EBZ	

Inter Office Shipment or Sample Comments:

Relinquished By:

Brianna Teel

Date Relinquished: 01.09.2020

Received By:

Ashley Derstine

Date Received:

01.10.2020

Cooler Temperature: 4.4



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist



Sent To: Lubbock IOS #: 55759

Contact:

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sent By:	Brianna Teel	Date Sent:	01.09.2020 04.10 PM		
Received By:	Ashley Derstine	Date Received:	01.10.2020 10.00 AM		
		Sample Red	ceipt Checklist		Comments
#1 *Temper	ature of cooler(s)?			4.4	
#2 *Shipping	g container in good condition	ነ?		Yes	
#3 *Samples	s received with appropriate	temperature?		Yes	
#4 *Custody	Seals intact on shipping co	ntainer/ cooler?		N/A	
#5 *Custody	Seals Signed and dated fo	r Containers/coole	ers	N/A	
#6 *IOS pres	sent?			Yes	
#7 Any miss	ing/extra samples?			No	
#8 IOS agre	es with sample label(s)/mat	rix?		Yes	
#9 Sample r	matrix/ properties agree with	IOS?		Yes	
#10 Sample	s in proper container/ bottle	?		Yes	
#11 Sample	s properly preserved?			Yes	
#12 Sample	container(s) intact?			Yes	
#13 Sufficie	nt sample amount for indica	ted test(s)?		Yes	
#14 All samp	ples received within hold tim	ie?		Yes	
* Must be cor	npleted for after-hours de	livery of sample	s prior to placing in the	e refrigerator	
NonConforma	nce:				
Corrective Act	tion Taken:				
		Nonconfor	mance Documentation		

Checklist reviewed by:



Contacted by:

Ashley Derstine

Date: <u>01.10.2020</u>

Date:



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 01/06/2020 10:15:00 AM

Checklist reviewed by:

Work Order #: 647939

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Date: 01/08/2020

Temperature Measuring device used: R8

Work Order #: 647939	•	G
	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		.8
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping cor	tainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	s?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinqu	iished/ received?	Yes
#10 Chain of Custody agrees with sampl	e labels/matrix?	Yes
#11 Container label(s) legible and intact?	•	Yes
#12 Samples in proper container/ bottle?		Yes
#13 Samples properly preserved?		Yes
#14 Sample container(s) intact?		Yes
#15 Sufficient sample amount for indicate	ed test(s)?	Yes
#16 All samples received within hold time	9?	Yes
#17 Subcontract of sample(s)?		N/A
#18 Water VOC samples have zero head	dspace?	N/A
* Must be completed for after-hours de Analyst:	livery of samples prior to placing in PH Device/Lot#:	the refrigerator
Checklist completed by:	Baina hal	Date: 01/06/2020

Brianna Teel

Jessica Kramer

Analytical Report 647940

for

Etech Environmental & Safety Solution, Inc

Project Manager: Lance Crenshaw Wrigley to Piper Pipeline

08-JAN-20

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)





08-JAN-20

Project Manager: Lance Crenshaw

Etech Environmental & Safety Solution, Inc P.O. Box 8469 Midland, TX 79708

D.C. VENCOD (N

Reference: XENCO Report No(s): 647940

Wrigley to Piper Pipeline

Project Address:

Lance Crenshaw:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 647940. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 647940 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 647940



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SFFL5	S	01-02-20 00:00		647940-001
SFFL6	S	01-02-20 00:00		647940-002
SFEWB5	S	01-02-20 00:00		647940-003
SFEW6	S	01-02-20 00:00		647940-004
SFWWB5	S	01-02-20 00:00		647940-005
SFWW6	S	01-02-20 00:00		647940-006

Work Order Number(s): 647940

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wrigley to Piper Pipeline

Project ID:

Report Date:

08-JAN-20

Date Received: 01/06/2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3112463 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3112587 TPH By SW8015 Mod

Lab Sample ID 647940-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Gasoline Range Hydrocarbons (GRO) recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 647940-001, -002, -003, -004, -005, -006.

The Laboratory Control Sample for Gasoline Range Hydrocarbons (GRO) is within laboratory Control Limits, therefore the data was accepted.

Gasoline Range Hydrocarbons (GRO) Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.

Samples in the analytical batch are: 647940-001, -002, -003, -004, -005, -006





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFFL5

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647940-001

Date Collected: 01.02.20 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112472

Date Prep: 01.06.20 14.40

Prep seq: 7693776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	2060	25.0	4.29	mg/kg	01.06.20 23:54	5

Analytical Method: TPH By SW8015 Mod

Prep Method: Tech:

8015

Analyst:

ARM

% Moist:

Date Prep: 01.07.20 09.00

DVM

Seq Number: 3112587

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	01.07.20 11:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.07.20 11:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.07.20 11:08	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	01.07.20 11:08	U	
6		0/ D		T * *4	T T.		D. 4	El.
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

	% Recovery	Limits	Units	
1-Chlorooctane	90	70 - 135	%	
o-Terphenyl	94	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112463

Date Prep: 01.06.20 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000384	mg/kg	01.06.20 23:10	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000455	mg/kg	01.06.20 23:10	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000564	mg/kg	01.06.20 23:10	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	0.00101	mg/kg	01.06.20 23:10	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.06.20 23:10	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	01.06.20 23:10	U	
Total BTEX		< 0.00200		0.000344	mg/kg	01.06.20 23:10	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1,4-Difluorobenzene		113		70 -	130 %	ó		
4-Bromofluorobenzene		99		70 -	130 %	Ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFFL6

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647940-002

Date Collected: 01.02.20 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Date Prep: 01.06.20 14.40

Seq Number: 3112472

Prep seq: 7693776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	250	5.03	0.864	mg/kg	01.07.20 00:01	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3112587

Date Prep: 01.07.20 09.00

Prep seq:	7693864
-----------	---------

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	65.9	50.0	15.0	mg/kg	01.07.20 12:05		1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.07.20 12:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.07.20 12:05	U	1
Total TPH	PHC635	65.9		15.0	mg/kg	01.07.20 12:05		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	90	70 - 135	%		
o-Terphenyl	94	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112463

Date Prep: 01.06.20 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto		
Benzene	71-43-2	< 0.00202	0.00202	0.000388	mg/kg	01.06.20 23:31	U	1		
Toluene	108-88-3	< 0.00202	0.00202	0.000459	mg/kg	01.06.20 23:31	U	1		
Ethylbenzene	100-41-4	< 0.00202	0.00202	0.000569	mg/kg	01.06.20 23:31	U	1		
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	0.00102	mg/kg	01.06.20 23:31	U	1		
o-Xylene	95-47-6	< 0.00202	0.00202	0.000347	mg/kg	01.06.20 23:31	U	1		
Total Xylenes	1330-20-7	< 0.00202		0.000347	mg/kg	01.06.20 23:31	U			
Total BTEX		< 0.00202		0.000347	mg/kg	01.06.20 23:31	U			
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag		
1,4-Difluorobenzene		111		70 -	130 %	6				
4-Bromofluorobenzene		95		70 -	130 %	6				





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFEWB5

Matrix:

Soil

Sample Depth:

Prep Method:

Lab Sample Id: 647940-003

Date Collected: 01.02.20 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112472

Date Prep: 01.06.20 14.40

Prep seq: 7693776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.03	5.03	0.864	mg/kg	01.07.20 00:08	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Date Prep: 01.07.20 09.00

Tech:

DVM

Seq Number: 3112587

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	65.8	49.9	15.0	mg/kg	01.07.20 12:24		1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.07.20 12:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.07.20 12:24	U	1
Total TPH	PHC635	65.8		15.0	mg/kg	01.07.20 12:24		
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits Uni			
1-Chlorooctane	92	70 - 135	%		
o-Terphenyl	95	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112463

Date Prep: 01.06.20 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	01.07.20 01:10	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	01.07.20 01:10	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	01.07.20 01:10	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	01.07.20 01:10	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.07.20 01:10	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	01.07.20 01:10	U	
Total BTEX		< 0.00200		0.000344	mg/kg	01.07.20 01:10	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1,4-Difluorobenzene		106		70 -	130 %	6		
4-Bromofluorobenzene		91		70 -	130 %	6		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFEW6

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647940-004

Date Collected: 01.02.20 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112472

Date Prep: 01.06.20 14.40

Prep seq: 7693776

CAS Dil Factor **Analysis** SDL **Parameter** MQL Result Units Flag Number Date Chloride 16887-00-6 < 4.96 4.96 0.852 01.07.20 00:14 U mg/kg

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3112587

Date Prep: 01.07.20 09.00

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	01.07.20 12:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.07.20 12:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.07.20 12:43	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	01.07.20 12:43	U	

Surrogate	% Recovery	Limits	Units	
1-Chlorooctane	89	70 - 135	%	
o-Terphenyl	92	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3112463

Date Prep: 01.06.20 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00198	0.00198	0.000382	mg/kg	01.07.20 01:30	U	1
Toluene	108-88-3	< 0.00198	0.00198	0.000452	mg/kg	01.07.20 01:30	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	0.000560	mg/kg	01.07.20 01:30	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397	0.00101	mg/kg	01.07.20 01:30	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	0.000342	mg/kg	01.07.20 01:30	U	1
Total Xylenes	1330-20-7	< 0.00198		0.000342	mg/kg	01.07.20 01:30	U	
Total BTEX		<0.00198		0.000342	mg/kg	01.07.20 01:30	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		104		70 -	130 %			
4-Bromofluorobenzene		90		70 -	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFWWB5

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647940-005

Date Collected: 01.02.20 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

E300P Prep Method:

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112472

Date Prep: 01.06.20 14.40

Prep seq: 7693776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<4.98	4.98	0.855	mg/kg	01.07.20 00:21	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

ARM

% Moist:

Tech:

DVM

Seq Number: 3112587

Analyst:

Date Prep: 01.07.20 09.00

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	01.07.20 13:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	01.07.20 13:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	01.07.20 13:02	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	01.07.20 13:02	U	

Surrogate	% Recovery	Limits Uni			
1-Chlorooctane	88	70 - 135	%		
o-Terphenyl	92	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3112463

Date Prep: 01.06.20 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00198	0.00198	0.000382	mg/kg	01.07.20 01:50	U	1
Toluene	108-88-3	< 0.00198	0.00198	0.000452	mg/kg	01.07.20 01:50	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	0.000560	mg/kg	01.07.20 01:50	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397	0.00101	mg/kg	01.07.20 01:50	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	0.000342	mg/kg	01.07.20 01:50	U	1
Total Xylenes	1330-20-7	< 0.00198		0.000342	mg/kg	01.07.20 01:50	U	
Total BTEX		< 0.00198		0.000342	mg/kg	01.07.20 01:50	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		111		70 -	130 %			
4-Bromofluorobenzene		101		70 -	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFWW6

Matrix:

Soil

Sample Depth:

Lab Sample Id: 647940-006

Date Collected: 01.02.20 00.00

Date Received: 01.06.20 10.15

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3112472

Date Prep: 01.06.20 14.40

Prep seq: 7693776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.04	5.04	0.865	mg/kg	01.07.20 00:27	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3112587

Date Prep: 01.07.20 09.00

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.07.20 13:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.07.20 13:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.07.20 13:22	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.07.20 13:22	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Burrogute	/o recovery	Zimits	Cints
1-Chlorooctane	87	70 - 135	%
o-Terphenyl	90	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112463

Date Prep: 01.06.20 13.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00202	0.00202	0.000388	mg/kg	01.07.20 02:11	U	1
Toluene	108-88-3	< 0.00202	0.00202	0.000459	mg/kg	01.07.20 02:11	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	0.000569	mg/kg	01.07.20 02:11	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	0.00102	mg/kg	01.07.20 02:11	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	0.000347	mg/kg	01.07.20 02:11	U	1
Total Xylenes	1330-20-7	< 0.00202		0.000347	mg/kg	01.07.20 02:11	U	
Total BTEX		< 0.00202		0.000347	mg/kg	01.07.20 02:11	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		107		70 - 3	130 %			
4-Bromofluorobenzene		100		70 - 1	130 %			





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

7693733-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693733-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112463

Date Prep: 01.06.20 09.30

Prep seq: 7693733

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	01.06.20 20:06	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	01.06.20 20:06	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	01.06.20 20:06	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	01.06.20 20:06	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.06.20 20:06	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	101	70 - 130	%		
4-Bromofluorobenzene	94	70 - 130	%		

Sample Id:

7693776-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693776-1-BLK

Date Collected:

Date Received:

Prep Method:

Analytical Method: Chloride by EPA 300

Tech:

E300P CHE

Analyst:

CHE Seq Number: 3112472 % Moist:

Date Prep: 01.06.20 14.40

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.00	5.00	0.858	mg/kg	01.06.20 22:35	U	1





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

7693864-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693864-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

% Moist:

Tech:

DVM

ARM

Seq Number: 3112587

Date Prep: 01.07.20 09.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.07.20 10:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.07.20 10:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	01.07.20 10:11	U	1
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1-Chlorooctane		86		70 - 13:	5 %)		
o-Terphenyl		89		70 - 13:	5 %)		



Flagging Criteria



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- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

Reporting Limit RL

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

LOQ Limit of Quantitation **PQL** Practical Quantitation Limit MQL Method Quantitation Limit

Method Detection Limit DL

NC Non-Calculable

BLK Method Blank **SMP** Client Sample

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



Form 2 - Surrogate Recoveries

Project Name: Wrigley to Piper Pipeline

Work Orders: 647940,

Project ID:

Lab Batch #: 3112463

Sample: 7693733-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/06/20 17:56	SU	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0314	0.0300	105	70-130			
4-Bromofluorobenzene	0.0306	0.0300	102	70-130			

Lab Batch #: 3112463

Sample: 7693733-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/06/20 18:17	SU	RROGATE RI	ECOVERY S	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0299	0.0300	100	70-130	

Lab Batch #: 3112463

Sample: 647843-001 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 01/06/20 18:37	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0340	0.0300	113	70-130		
4-Bromofluorobenzene	0.0321	0.0300	107	70-130		

Lab Batch #: 3112463

Sample: 647843-001 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 01/06/20 18:58	SU	RROGATE RI	ECOVERY S	STUDY	
	6 by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0342	0.0300	114	70-130	
4-Bromofluorobenzene		0.0310	0.0300	103	70-130	

Lab Batch #: 3112463

Sample: 7693733-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/06/20 20:06	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0303	0.0300	101	70-130	
4-Bromofluorobenzene	0.0281	0.0300	94	70-130	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Wrigley to Piper Pipeline

Work Orders: 647940,

Project ID:

Lab Batch #: 3112587

Sample: 7693864-1-BLK / BLK

Batch: Matrix: Solid

Units: mg/kg Date Analyzed: 01/07/20 10:11	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.2	100	86	70-135	
o-Terphenyl	44.4	50.0	89	70-135	

Lab Batch #: 3112587

Sample: 7693864-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg

Date Analyzed: 01/07/20 10:30

SURROGATE RECOVERY STUDY Amount True Control TPH By SW8015 Mod Recovery Found Amount Limits **Flags** [A] [B] %R %R [D] **Analytes** 121 100 121 70-135

Lab Batch #: 3112587

1-Chlorooctane

o-Terphenyl

Sample: 7693864-1-BSD / BSD

Batch:

Matrix: Solid

103

70-135

50.0

Units: mg/kg Date Analyzed: 01/07/20 10:49	SU	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	122	100	122	70-135		
o-Terphenyl	52.9	50.0	106	70-135		

51.3

Lab Batch #: 3112587

Sample: 647940-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 01/07/20 11:27	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	117	99.7	117	70-135	
o-Terphenyl	63.6	49.9	127	70-135	

Lab Batch #: 3112587

Sample: 647940-001 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 01/07/20 11:46	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	99.6	112	70-135	
o-Terphenyl	57.1	49.8	115	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



Project Name: Wrigley to Piper Pipeline

Work Order #: 647940

Project ID:

Analyst: Lab Batch ID: 3112463

KTL

Sample: 7693733-1-BKS

Date Prepared: 01/06/2020

Date Analyzed: 01/06/2020

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00200	0.100	0.114	114	0.100	0.112	112	2	70-130	35	
Toluene	< 0.00200	0.100	0.110	110	0.100	0.107	107	3	70-130	35	
Ethylbenzene	< 0.00200	0.100	0.114	114	0.100	0.109	109	4	70-130	35	
m,p-Xylenes	< 0.00400	0.200	0.234	117	0.200	0.224	112	4	70-130	35	
o-Xylene	< 0.00200	0.100	0.115	115	0.100	0.110	110	4	70-130	35	

Analyst:

CHE

Date Prepared: 01/06/2020

Date Analyzed: 01/06/2020

Lab Batch ID: 3112472

Sample: 7693776-1-BKS

Batch #: 1

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	< 0.858	250	266	106	250	265	106	0	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



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Project Name: Wrigley to Piper Pipeline

Work Order #: 647940

Project ID:

Analyst:

ARM

Date Prepared: 01/07/2020

Date Analyzed: 01/07/2020

Lab Batch ID: 3112587

Sample: 7693864-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	712	71	1000	854	85	18	70-135	20	
Diesel Range Organics (DRO)	15.0	1000	834	83	1000	750	75	11	70-135	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



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Project Name: Wrigley to Piper Pipeline

Work Order #:

647940 3112463

QC- Sample ID: 647843-001 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

01/06/2020

Date Prepared: 01/06/2020

Analyst: KTL

Reporting Units:

mg/kg

J20 Analyst: K11

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[0]	[D]	[E]	result [1]	[G]	,•	/014	/ VIAI D	
Benzene	< 0.00200	0.100	0.0928	93	0.0992	0.0903	91	3	70-130	35	
Toluene	< 0.00200	0.100	0.0870	87	0.0992	0.0816	82	6	70-130	35	
Ethylbenzene	< 0.00200	0.100	0.0859	86	0.0992	0.0793	80	8	70-130	35	
m,p-Xylenes	< 0.00400	0.200	0.177	89	0.198	0.163	82	8	70-130	35	
o-Xylene	< 0.00200	0.100	0.0880	88	0.0992	0.0807	81	9	70-130	35	

Lab Batch ID:

3112472

QC- Sample ID: 647939-010 S

10 S **Batch #:**

Matrix: Soil

Date Analyzed:

01/06/2020

Date Prepared: 01/06/2020

Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	823	251	1080	102	251	1110	114	3	90-110	20	X

Lab Batch ID:

3112472

QC- Sample ID: 647940-006 S

Batch #:

Matrix: Soil

Date Analyzed:

01/07/2020

Date Prepared: 01/06/2020

Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Sample %R	Added	Duplicate Spiked Sample Result [F]	%R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Chloride	2.39	252	275	108	252	280	110	2	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: Wrigley to Piper Pipeline

Work Order #:

647940 3112587

QC- Sample ID: 647940-001 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

01/07/2020

Date Prepared: 01/07/2020

Analyst: ARM

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Reporting Units:

mg/kg

20 Analyst: ARM

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	857	86	996	686	69	22	70-135	20	XF
Diesel Range Organics (DRO)	31.2	997	741	71	996	804	78	8	70-135	20	

9XCI VOCS?	pH verified-acceptable, excl VOCs? Received on time to meet HTs?		1000			tolk									130 4
- Annual	Proper containers used?		12 V	X POIN		TXX) . . ω
ce?	Custody seals intact? VOCs rec'd w/o headspace?	LS. F	1-360		10 M	S S									1/6 /
time?	Received within holding time?	4:18	-3-20 (m to	mount		(2)	1- 200				than -	Moura	/20.
arvatives?	Received on Wet Ice?	Time	Date -	Amiliation	ed by	Keceived b	Time	4	Dale	Aumanon	711		//		20
val?	Samples intact upon arrival?	3	U.Q.N	ar		KLS Other:		AP Other:	NELAC DOD-EI			Z			Juliei.
d?	Non-Conformances found?		?)	Incomplete) ERPIMS	ADaPT SEDD		CLP AFCEE QAPP	1 2 3 4 CLP AFCE	NJ PA OK LA	GA NC SC NJ	구 TX GA	NPDES LPST DryCin	TRRP DW	
YES NO NIA	Lab Use Only	Temp *C	Coolers Tr	COC & Labels	Š	EDDs	ification	QA/QC Level & Certification	OA/QC Li	& Regs	STATE for Certs & Regs		lean-up		
															М
															9
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					-										_7
						×	×			SOIL	0	1/2/2020	SFWW6		6
						×	×			SOIL	0	1/2/2020	SFWWB5		5
-						×	×			SOIL	0	1/2/2020	SFEW6		4
						×	×	7		SOIL	0	1/2/2020	SFEWB5		ω
						×	×			SOIL	0	1/2/2020	SFFL6		_2
						×	×	_		SOIL		1/2/2020	SFFL5		
REMARKS	RE						nt Lab Only:	# Cont							S
O Oji ater T Tissue U Unne B Blood	SW Surface Water (OW Ocean/Sea Water) PL Product-Liquid (PS Product-Solid E PS L Sludge Other	Hold (CALL) on Highest I						containers	Field Filtered Integrity OK (Y/N) Total # of	Matrix Code *	Collect Time	Collect Date	Sample ID		ample#
S Soil/Sediment/Solid W Wipe A Air	GW Ground Water WW Waste Water DW Drinking Water				۲	TEX CI	8015M	imple	Monthly Quartely	ı	Circle One Event: Daily Weekly Semi-Annual Annual N/A	Circle One E Semi-Annual		·Name: Villa	Sampler Name: Catalina Villa
Type Codes	^ Matrix	n PAH Only If						260		Quote #:		am	Ralph Tijerina, Goodnight Midstream		Invoice To:
K. ZnAc&NaOH K. Asbc Acid&NaOH	H ₂ SO ₄ G. Na ₂ S ₂ O ₃ F D. NaOH H. NaHSO ₄					_	- -	Pres Type	PAA-C. Bryant	PO#:			Wrigley to Piper Pipeline	l	Project ID:
l. Ice	A. None E. HCL				0	GC GC	* GC	OM Cont Type *	pm@etechenv.com	pm@et	Email:		Lance Crenshaw		PM/Attn:
** Preservative Type Codes	** Preservat		9	LYSES REQUESTED	ANALYSE	A			88260	Zip:	State: NM		η	Lovington	City:
16oz, 32oz , 1Gal 300 ml, 1L, Other	Size(s): 2oz, 4oz, 8oz, 16oz, 32oz , 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other		14D Other	5D 7D 10D	1D 2D 3D 4	5	Std (5-7)		(575)396-1429				3100 Plains Hwy.		Address:
	PC Plastic Clear Other		Time:		Need results by:	0	Work Days =	TAT	(575)396-2378	ē			Etech Environmental	٠, ا	Company:
* Container Type Codes al Amber Es Encore Sampler al Clear TS TerraCore Sampler al Pre-preserved AC Air Canister alsas Amber TB Tedlar Bag dass Clear ZB Zip Lock Bag lastic Amber PC Plastic Clear	VA Vial Amber VC Vial Clear VP Vial Pre-preserved GA Class Amber GC Glass Class Amber PA Plastic Amber	1934		Page_ LAB W.O#:		79765 (432)56:	RECORD East Odessa, TX 797	West I-20 Eas	CUSTODY RECORD Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800	1	CHAIN 1, TX 77477 (281)24	ar Dr. Stafford	CHAIN OF Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 23 :roool-c	KENCO aboratories	Page 550 aj
		ZZ	7												f 744

A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330 C.O.C. Serial #

TS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

To Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

To Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

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To Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-95649 South Carolina 803-543-8099

To Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-95

SHIEF DHIE: 03JAN20 ACTWGT: 27 00 LB MAN CAD: 0909328/CAFE3211 DIMS: 19×16×14 IN ORIGIN ID HOBA (5/5) 392-/550 MAIL SERVICES ETC, LLC 4008 N GRIMES BILL RECIPIENT HOBBS, NM 88240 UNITED STATES US TO XENCO LABORATORIES HOLD FOR PICK UP FEDEX EXPRESS SHIP CENTER FEDEX EXPRESS SHIP CENTER 3600 COUNTY ROAD 1276 SOUTH MIDLAND TX 79711 (432) 563-1800 INV: PO: DEPT: FedEx SATURDAY HOLD PRIORITY OVERNIGHT HLD MAFA 41 MAFA TX-US LBB MIN 185148-484 MITZ EAP 07/22 Delivery Applinacy Alba I IWM 40/01 996131

Analytical Report 648064

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry
Wrigley to Piper Pipeline

14-JAN-20

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)





14-JAN-20

Project Manager: **Joel Lowry Etech Environmental & Safety Solution, Inc**P.O. Box 8469

Midland, TX 79708

Reference: XENCO Report No(s): 648064

Wrigley to Piper Pipeline

Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 648064. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 648064 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 648064



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SFWW7	S	01-03-20 08:00		648064-001
SFWW8	S	01-03-20 09:35		648064-002
SFWW9	S	01-03-20 12:35		648064-003
SFEW7	S	01-03-20 08:05		648064-004
SFEW8A	S	01-03-20 11:00		648064-005
SFEW9A	S	01-03-20 13:15		648064-006
SFEW10	S	01-03-20 14:45		648064-007
SFFS7	S	01-03-20 08:10		648064-008
SFFS8	S	01-03-20 09:40		648064-009
SFFS9	S	01-03-20 12:40		648064-010
SFFS10	S	01-03-20 14:55		648064-011

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wrigley to Piper Pipeline

Project ID:

Report Date: 14-JAN-20

Work Order Number(s): 648064 Date Received: 01/07/2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3112950 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFWW7

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648064-001

Date Collected: 01.03.20 08.00

Date Received: 01.07.20 10.46

Analytical Method: Chloride by EPA 300

E300P Prep Method:

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3112559

Date Prep: 01.07.20 12.50

Prep seq: 7693829

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	172	4.98	0.855	mg/kg	01.07.20 16:41	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3112587

Date Prep: 01.07.20 09.00

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.07.20 13:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.07.20 13:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.07.20 13:41	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	01.07.20 13:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	88	70 - 135	%	
o-Terphenyl	92	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3112950

Date Prep: 01.10.20 10.15

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	01.10.20 12:54	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000454	mg/kg	01.10.20 12:54	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000563	mg/kg	01.10.20 12:54	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	01.10.20 12:54	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000343	mg/kg	01.10.20 12:54	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000343	mg/kg	01.10.20 12:54	U	
Total BTEX		< 0.00199		0.000343	mg/kg	01.10.20 12:54	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		109		70 - 3	130 %	5		
4-Bromofluorobenzene		89		70 - 1	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFWW8

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648064-002

Date Collected: 01.03.20 09.35

Date Received: 01.07.20 10.46

Analytical Method: Chloride by EPA 300

E300P Prep Method:

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112559

Date Prep: 01.07.20 12.50

Prep seq: 7693829

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	20.4	4.97	0.853	mg/kg	01.07.20 17:01	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3112587

Prep seq: 7693864

Date Prep: 01.07.20 09.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.07.20 14:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.07.20 14:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.07.20 14:00	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.07.20 14:00	U	

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	88	70 - 135	%
o-Terphenyl	90	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3112950

Date Prep: 01.10.20 10.15

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000386	mg/kg	01.10.20 14:55	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000457	mg/kg	01.10.20 14:55	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000566	mg/kg	01.10.20 14:55	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401	0.00102	mg/kg	01.10.20 14:55	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000345	mg/kg	01.10.20 14:55	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000345	mg/kg	01.10.20 14:55	U	
Total BTEX		< 0.00200		0.000345	mg/kg	01.10.20 14:55	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		103		70 - 3	130 %			
4-Bromofluorobenzene		84		70 - 1	130 %			





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFWW9

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648064-003

Date Collected: 01.03.20 12.35

Date Received: 01.07.20 10.46

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112559

Date Prep: 01.07.20 12.50

Prep seq: 7693829

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor
Chloride	16887-00-6	35.5	5.03	0.864	mg/kg	01.07.20 17:07	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3112587

Date Prep: 01.07.20 09.00

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.07.20 14:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.07.20 14:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.07.20 14:19	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	01.07.20 14:19	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surroguit	/ 0 11000 / C1 J	2	C 11110
1-Chlorooctane	88	70 - 135	%
o-Terphenyl	89	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

4-Bromofluorobenzene

% Moist:

Tech:

KTL

Seq Number: 3112950

Date Prep: 01.10.20 10.15

Prep seq: 7694088

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	01.10.20 15:15	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000453	mg/kg	01.10.20 15:15	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000561	mg/kg	01.10.20 15:15	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	01.10.20 15:15	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000342	mg/kg	01.10.20 15:15	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000342	mg/kg	01.10.20 15:15	U	
Total BTEX		< 0.00199		0.000342	mg/kg	01.10.20 15:15	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1 4-Difluorobenzene		105		70 -	130 %	6		

87

70 - 130





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFEW7

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648064-004

Date Collected: 01.03.20 08.05

Date Received: 01.07.20 10.46

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112559

Date Prep: 01.07.20 12.50

Prep seq: 7693829

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor
Chloride	16887-00-6	42.5	4.99	0.857	mg/kg	01.07.20 17:14	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3112587

Date Prep: 01.07.20 09.00

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.07.20 14:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.07.20 14:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.07.20 14:38	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.07.20 14:38	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogue	, o 11000 , 013		C 11145
1-Chlorooctane	91	70 - 135	%
o-Terphenyl	93	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112950

Date Prep: 01.10.20 10.15

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00244	0.00244	0.000470	mg/kg	01.10.20 15:35	U	1
Toluene	108-88-3	< 0.00244	0.00244	0.000556	mg/kg	01.10.20 15:35	U	1
Ethylbenzene	100-41-4	< 0.00244	0.00244	0.000689	mg/kg	01.10.20 15:35	U	1
m,p-Xylenes	179601-23-1	< 0.00488	0.00488	0.00124	mg/kg	01.10.20 15:35	U	1
o-Xylene	95-47-6	< 0.00244	0.00244	0.000420	mg/kg	01.10.20 15:35	U	1
Total Xylenes	1330-20-7	< 0.00244		0.000420	mg/kg	01.10.20 15:35	U	
Total BTEX		< 0.00244		0.000420	mg/kg	01.10.20 15:35	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		104		70 - 3	130 %	5		
4-Bromofluorobenzene		85		70 - 1	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFEW8A

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648064-005

Date Collected: 01.03.20 11.00

Date Received: 01.07.20 10.46

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3112559

Date Prep: 01.07.20 12.50

Prep seq: 7693829

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor
Chloride	16887-00-6	10.1	4.96	0.852	mg/kg	01.07.20 17:21	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3112587

Date Prep: 01.07.20 09.00 Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.07.20 15:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.07.20 15:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.07.20 15:17	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.07.20 15:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	93	70 - 135	%		
o-Terphenyl	95	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112950

Date Prep: 01.10.20 10.15

		rrep seq.						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	01.10.20 15:55	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000454	mg/kg	01.10.20 15:55	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000563	mg/kg	01.10.20 15:55	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	01.10.20 15:55	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000343	mg/kg	01.10.20 15:55	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000343	mg/kg	01.10.20 15:55	U	
Total BTEX		< 0.00199		0.000343	mg/kg	01.10.20 15:55	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1,4-Difluorobenzene		109		70 -	130 %	6		
4-Bromofluorobenzene		92		70 - 1	130 %	6		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFEW9A

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648064-006

Date Collected: 01.03.20 13.15

Date Received: 01.07.20 10.46

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112559

Date Prep: 01.07.20 12.50

Prep seq: 7693829

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.00	5.00	0.858	mg/kg	01.07.20 17:41	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3112587

Date Prep: 01.07.20 09.00

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.07.20 15:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.07.20 15:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.07.20 15:36	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	01.07.20 15:36	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units	A
1-Chlorooctane	90	70 - 135	%	
o-Terphenyl	90	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112950

Date Prep: 01.10.20 10.15

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000384	mg/kg	01.10.20 17:14	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000455	mg/kg	01.10.20 17:14	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000564	mg/kg	01.10.20 17:14	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	0.00101	mg/kg	01.10.20 17:14	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.10.20 17:14	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	01.10.20 17:14	U	
Total BTEX		< 0.00200		0.000344	mg/kg	01.10.20 17:14	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		99		70 - 1	130 %	5		
4-Bromofluorobenzene		84		70 - 1	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFEW10

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648064-007

Date Collected: 01.03.20 14.45

Date Received: 01.07.20 10.46

Analytical Method: Chloride by EPA 300

CHE

% Moist:

Prep Method: E300P

Analyst:

Tech:

CHE

Seq Number: 3112559

Date Prep: 01.07.20 12.50

Prep seq: 7693829

CAS **Dil Factor Analysis** SDL **Parameter** Result MQL Units Number 16887-00-6 37.3 5.02 0.862 01.07.20 17:47 Chloride mg/kg

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Date Prep: 01.07.20 09.00

DVM Tech:

Seq Number: 3112587

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.07.20 15:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.07.20 15:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.07.20 15:55	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	01.07.20 15:55	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	91	70 - 135	%		
o-Terphenyl	95	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

4-Bromofluorobenzene

% Moist:

Tech:

KTL

Seq Number: 3112950

Date Prep: 01.10.20 10.15

Prep seq: 7694088

		1 1						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00201	0.00201	0.000386	mg/kg	01.10.20 17:34	U	1
Toluene	108-88-3	< 0.00201	0.00201	0.000457	mg/kg	01.10.20 17:34	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	0.000567	mg/kg	01.10.20 17:34	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	01.10.20 17:34	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	0.000346	mg/kg	01.10.20 17:34	U	1
Total Xylenes	1330-20-7	< 0.00201		0.000346	mg/kg	01.10.20 17:34	U	
Total BTEX		< 0.00201		0.000346	mg/kg	01.10.20 17:34	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1,4-Difluorobenzene		101		70 -	130 %	6		

80

70 - 130





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFFS7

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648064-008

Date Collected: 01.03.20 08.10

Date Received: 01.07.20 10.46

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112559

Date Prep: 01.07.20 12.50

Prep seq: 7693829

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	1170	5.00	0.858	mg/kg	01.07.20 17:54	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3112587

Date Prep: 01.07.20 09.00

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.07.20 16:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.07.20 16:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.07.20 16:14	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.07.20 16:14	U	

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	95	70 - 135	%
o-Terphenyl	98	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3112950

Date Prep: 01.10.20 10.15

		1 1						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	01.10.20 17:54	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	01.10.20 17:54	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	01.10.20 17:54	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	01.10.20 17:54	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.10.20 17:54	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	01.10.20 17:54	U	
Total BTEX		< 0.00200		0.000344	mg/kg	01.10.20 17:54	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		102		70 -	130 %	ó		
4-Bromofluorobenzene		78		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFFS8

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648064-009

Date Collected: 01.03.20 09.40

Date Received: 01.07.20 10.46

Analytical Method: Chloride by EPA 300

E300P Prep Method:

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3112559

Date Prep: 01.07.20 12.50

Prep seq: 7693829

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	1930	24.9	4.27	mg/kg	01.07.20 18:01	5

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3112587

Date Prep: 01.07.20 09.00

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	56.3	50.0	15.0	mg/kg	01.07.20 16:33		1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.07.20 16:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.07.20 16:33	U	1
Total TPH	PHC635	56.3		15.0	mg/kg	01.07.20 16:33		
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

541108410	70 11000 701 3	23111145	0 111 65		
1-Chlorooctane	99	70 - 135	%		
o-Terphenyl	103	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112950

Date Prep: 01.10.20 10.15

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00202	0.00202	0.000388	mg/kg	01.10.20 18:14	U	1
Toluene	108-88-3	< 0.00202	0.00202	0.000459	mg/kg	01.10.20 18:14	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	0.000569	mg/kg	01.10.20 18:14	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	0.00102	mg/kg	01.10.20 18:14	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	0.000347	mg/kg	01.10.20 18:14	U	1
Total Xylenes	1330-20-7	< 0.00202		0.000347	mg/kg	01.10.20 18:14	U	
Total BTEX		< 0.00202		0.000347	mg/kg	01.10.20 18:14	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		106		70 - 1	130 %	5		
4-Bromofluorobenzene		84		70 - 1	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFFS9

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648064-010

Date Collected: 01.03.20 12.40

Date Received: 01.07.20 10.46

Analytical Method: Chloride by EPA 300

E300P Prep Method:

Analyst:

CHE

% Moist:

Seq Number: 3112559

Tech:

Tech:

CHE

Date Prep: 01.07.20 12.50

Prep seq: 7693829

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	3750	25.0	4.29	mg/kg	01.07.20 18:07	5

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

DVM

Seq Number: 3112587

Date Prep: 01.07.20 09.00

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.07.20 16:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.07.20 16:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.07.20 16:52	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	01.07.20 16:52	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits Units	
1-Chlorooctane	87	70 - 135 %	
o-Terphenyl	89	70 - 135 %	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112950

Date Prep: 01.10.20 10.15

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00198	0.00198	0.000381	mg/kg	01.10.20 18:35	U	1
Toluene	108-88-3	< 0.00198	0.00198	0.000451	mg/kg	01.10.20 18:35	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	0.000559	mg/kg	01.10.20 18:35	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396	0.00100	mg/kg	01.10.20 18:35	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	0.000341	mg/kg	01.10.20 18:35	U	1
Total Xylenes	1330-20-7	< 0.00198		0.000341	mg/kg	01.10.20 18:35	U	
Total BTEX		<0.00198		0.000341	mg/kg	01.10.20 18:35	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		104		70 -	130 %	5		
4-Bromofluorobenzene		87		70 -	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

SFFS10

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648064-011

Date Collected: 01.03.20 14.55

Date Received: 01.07.20 10.46

Analytical Method: Chloride by EPA 300

% Moist:

Prep Method: E300P

Analyst:

CHE

Tech:

CHE

Seq Number: 3112559

Date Prep: 01.07.20 12.50

Prep seq: 7693829

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	2910	25.2	4.32	mg/kg	01.07.20 18:34	5

Analytical Method: TPH By SW8015 Mod

Prep Method:

Tech:

8015

Analyst:

ARM

% Moist:

DVM

Seq Number: 3112587

Prep seq: 7693864

Date Prep: 01.07.20 09.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.07.20 17:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.07.20 17:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.07.20 17:11	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.07.20 17:11	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	88	70 - 135	%		
o-Terphenyl	91	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3112950

Date Prep: 01.10.20 10.15

CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Fact
71-43-2	< 0.00200	0.00200	0.000386	mg/kg	01.10.20 18:55	U	1
108-88-3	< 0.00200	0.00200	0.000457	mg/kg	01.10.20 18:55	U	1
100-41-4	< 0.00200	0.00200	0.000566	mg/kg	01.10.20 18:55	U	1
179601-23-1	< 0.00401	0.00401	0.00102	mg/kg	01.10.20 18:55	U	1
95-47-6	< 0.00200	0.00200	0.000345	mg/kg	01.10.20 18:55	U	1
1330-20-7	< 0.00200		0.000345	mg/kg	01.10.20 18:55	U	
	<0.00200		0.000345	mg/kg	01.10.20 18:55	U	
	% Recovery		Limits	Un	its Analysis	Date	Flag
	104		70 -	130 %	ó		
	85		70 -	130 %	ó		
	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Number Result 71-43-2 <0.00200 108-88-3 <0.00200 100-41-4 <0.00200 179601-23-1 <0.00401 95-47-6 <0.00200 1330-20-7 <0.00200	Number Result MQL 71-43-2 <0.00200	Number Result MQL SDL 71-43-2 <0.00200	Number Result MQL SDL Units 71-43-2 <0.00200	Number Result MQL SDL Units Date 71-43-2 <0.00200	Number Result MQL SDL Units Date Flag 71-43-2 <0.00200





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

7693829-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693829-1-BLK

Date Collected:

Date Received:

Analytical Method: Chloride by EPA 300

Prep Method:

Analyst:

% Moist:

E300P

CHE

Tech:

CHE

Seq Number: 3112559

Date Prep: 01.07.20 12.50

Prep seq: 7693829

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.00	5.00	0.858	mg/kg	01.07.20 16:21	U	1

Sample Id:

7693864-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7693864-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3112587

Date Prep: 01.07.20 09.00

Prep seq: 7693864

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.07.20 10:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.07.20 10:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	01.07.20 10:11	U	1
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogate % Recovery Limits Units 86 1-Chlorooctane 70 - 135 % o-Terphenyl 70 - 135 89 %





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

7694088-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7694088-1-BLK

1,4-Difluorobenzene

4-Bromofluorobenzene

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

70 - 130

70 - 130

KTL

Seq Number: 3112950

/0 IVIO

Date Prep: 01.10.20 10.15

Prep seq: 7694088

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	01.10.20 12:34	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	01.10.20 12:34	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	01.10.20 12:34	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	01.10.20 12:34	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.10.20 12:34	U	1
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

98

82



Flagging Criteria



Page 569 of 744

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



Form 2 - Surrogate Recoveries

Project Name: Wrigley to Piper Pipeline

Work Orders: 648064,

Project ID:

Lab Batch #: 3112950

Sample: 7694088-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 01/10/20 10:35	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0314	0.0300	105	70-130		
4-Bromofluorobenzene	0.0272	0.0300	91	70-130		

Lab Batch #: 3112950

Sample: 7694088-1-BSD / BSD

Batch:

Matrix: Solid

103

94

70-130

70-130

Units: mg/kg	Date Analyzed: 01/10/20 10:55	SU	RROGATE RE	ECOVERY S	STUDY	
BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		

0.0309

0.0283

4-Bromofluorobenzene **Lab Batch #:** 3112950

1,4-Difluorobenzene

Sample: 648064-001 S / MS

Batch:

Matrix: Soil

0.0300

0.0300

Units: mg/kg Date Analyzed: 01/10/20 11:15	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0322	0.0300	107	70-130		
4-Bromofluorobenzene	0.0308	0.0300	103	70-130		

Lab Batch #: 3112950

Sample: 648064-001 SD / MSD

Batch:

1

Matrix: Soil

Units: mg/kg Date Analyzed: 01/10/20 11:35	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1,4-Difluorobenzene	0.0320	0.0300	107	70-130		
4-Bromofluorobenzene	0.0302	0.0300	101	70-130		

Lab Batch #: 3112950

Sample: 7694088-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/10/20 12:34	SURROGATE RECOVERY STUDY									
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
Analytes			[D]							
1,4-Difluorobenzene	0.0294	0.0300	98	70-130						
4-Bromofluorobenzene	0.0247	0.0300	82	70-130						

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Wrigley to Piper Pipeline

Work Orders: 648064,

Project ID:

Lab Batch #: 3112587

Sample: 7693864-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/07/20 10:11	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	86.2	100	86	70-135	
o-Terphenyl	44.4	50.0	89	70-135	

Lab Batch #: 3112587

Sample: 7693864-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 01/07/20 10:30	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	121	100	121	70-135	
o-Terphenyl	51.3	50.0	103	70-135	

Lab Batch #: 3112587

Sample: 7693864-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/07/20 10:49	SU	RROGATE RI	ECOVERY	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	122	100	122	70-135	
o-Terphenyl	52.9	50.0	106	70-135	

Lab Batch #: 3112587

Sample: 647940-001 S / MS

1 Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 01/07/20 11:27	SU	SURROGATE RECOVERY STUDY									
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
Analytes			[[]]								
1-Chlorooctane	117	99.7	117	70-135							
o-Terphenyl	63.6	49.9	127	70-135							

Lab Batch #: 3112587

Sample: 647940-001 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 01/07/20 11:46	SU	RROGATE RI	ECOVERY S	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	99.6	112	70-135	
o-Terphenyl	57.1	49.8	115	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

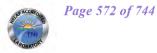
All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



Project Name: Wrigley to Piper Pipeline

Work Order #: 648064

Project ID:

Analyst: KT

KTL

Date Prepared: 01/10/2020

Date Analyzed: 01/10/2020

Lab Batch ID: 3112950

Sample: 7694088-1-BKS

Batch #: 1 Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result	mple Result Added Spike			Blank Spike Blank Spike Added Spike %R Duplicat		Spike Dup. R		Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[C]	%K [D]	[E]	Result [F]	%K [G]	%	70K	70KPD	
Benzene	< 0.000385	0.100	0.120	120	0.100	0.117	117	3	70-130	35	
Toluene	< 0.000456	0.100	0.109	109	0.100	0.107	107	2	70-130	35	
Ethylbenzene	< 0.000565	0.100	0.102	102	0.100	0.102	102	0	70-130	35	
m,p-Xylenes	< 0.00101	0.200	0.200	100	0.200	0.198	99	1	70-130	35	
o-Xylene	< 0.000344	0.100	0.0988	99	0.100	0.0982	98	1	70-130	35	

Analyst:

CHE

Date Prepared: 01/07/2020

Date Analyzed: 01/07/2020

Lab Batch ID: 3112559

Sample: 7693829-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

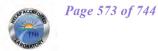
BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.858	250	245	98	250	241	96	2	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Wrigley to Piper Pipeline

Work Order #: 648064

Project ID:

Analyst:

ARM

Date Prepared: 01/07/2020

Date Analyzed: 01/07/2020

Lab Batch ID: 3112587

Sample: 7693864-1-BKS

Batch #: 1 Matrix: Solid

Units:	mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	712	71	1000	854	85	18	70-135	20	
Diesel Range Organics (DRO)	15.0	1000	834	83	1000	750	75	11	70-135	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Page 574 of 744

Project Name: Wrigley to Piper Pipeline

Work Order #:

648064

Project ID:

Lab Batch ID:

3112950

QC- Sample ID: 648064-001 S

Batch #:

Matrix: Soil

Date Analyzed:

01/10/2020

Date Prepared: 01/10/2020

Analyst: KTL

Reporting Units:

mg/kg

20 Analyst: KIL

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]	Result [1]	[G]	,•	/ U K	70KI D	
Benzene	< 0.000383	0.0996	0.105	105	0.0992	0.105	106	0	70-130	35	
Toluene	0.000618	0.0996	0.0999	100	0.0992	0.102	102	2	70-130	35	
Ethylbenzene	< 0.000563	0.0996	0.0945	95	0.0992	0.0972	98	3	70-130	35	
m,p-Xylenes	< 0.00101	0.199	0.187	94	0.198	0.192	97	3	70-130	35	
o-Xylene	0.000369	0.0996	0.0941	94	0.0992	0.0958	96	2	70-130	35	

Lab Batch ID:

3112559

QC- Sample ID: 648064-001 S

Batch #:

Matrix: Soil

Date Analyzed:

01/07/2020

Date Prepared: 01/07/2020

Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	172	299	476	102	299	465	98	2	90-110	20	

Lab Batch ID:

3112559

QC- Sample ID: 648066-001 S

Batch #:

Matrix: Soil

Date Analyzed:

01/07/2020

Date Prepared: 01/07/2020

Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	456	300	757	100	300	750	98	1	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: Wrigley to Piper Pipeline

Work Order #:

648064 3112587

Lab Batch ID:

QC- Sample ID: 647940-001 S

Batch #:

Matrix: Soil

Project ID:

Date Analyzed:

01/07/2020

Date Prepared: 01/07/2020

Analyst: ARM

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	857	86	996	686	69	22	70-135	20	XF
Diesel Range Organics (DRO)	31.2	997	741	71	996	804	78	8	70-135	20	

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable $N = See \ Narrative, EQL = Estimated \ Quantitation \ Limit, NC = Non \ Calculable - Sample \ amount \ is > 4 \ times \ the \ amount \ spiked.$

Received by	OCI BR 4	ω	N	020		Other	\$100000 and \$100	4M		8	7	6	(J)	4	ω	2	1_		Sample #	Samp Matth	invoid	- Toject ID:	PW/Attn:	, cl	Address:		Page 5	<u>76</u>
C.O.C. Serial # Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099 Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and services are conditions unless for such data are paid in full. Revision Date: Nov 12, 2009	ahoratorios: Hobbs 575 303 7550		えられ、からこ	MACK.	Relinquished by	TRRY DW NYDES LPST DryCh	Program / Clean-up	SFFS9	SFFS8	SFFS7	SFEW10	SFEW9A	SFEW8A	SFEW7	SFWW9	SFWW8	SFWW7		Sample ID	Sampler Name: Matthew Grieco	Invoice To: Ralph Tijerina, Goodnight Midstream	Wrigley to Piper Pipeline	tin: Joel Lowry	Lovington	ess: 3100 Plains Hwy.	Company: Etech Environmental	BOJALOJICS ;TOOOI-C	
800 Lakelar binding agreeme		I	1000			AL NM Other:		1/3/2020	1/3/2020	1/3/2020	1/3/2020	1/3/2020	1/3/2020	1/3/2020	1/3/2020	1/3/2020	1/3/2020		Collect Date	Circle One I Semi-Annual	m						cano cano	otation .
nd 863-646- ant between clien full. All laborate	000		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Stein	Affiliation	SC NJ PA	STATE for Certs & Regs	12:40	9:40	8:10	14:45	13:15	11:00	8:05	12:35	9:35	8:00		Collect Time	Circle One Event: Daily Semi-Annual Annual N			Email:	State: NM			(201)	(1) 27777 (284) A COC
8526 Tam 8526 Tam nt and Xenco						QK FA	degs	Soil		Matrix Gode *	Weekly N N/A	Quote #:	PO#: P	pm@etec	Zip: 8		Phone: (
1pa 803-543. 1pa 803-543. I for analytical an data and reports		1000	1/1/2/5	1/6/20	Date	1 2 3 4 CLP	QA/QC Lev				1	1		_	_				Filtered Integrity OK (Y/N) Total # of	Monthly Quartely		PAA-C. Bryant	pm@etechenv.com	88260	(575)396-1429	(575)396-2378	Joessa: 12600 V	
-8099 Philad8099 Philad- d testing services generated by Xe		7.00	1.0	15:2	Time		QA/QC Level & Certification											# Cont	Exa Volatile	imple	60	Pres Type**	Cont Type* VC			TAT Wo	vest I-20 East O	ב ק
132-563-1 elphia 61 provided by nco remain the		X	<u> </u>	4	XLS		ion	×	×	×	×	×	×	×	×	×	×	Lab Only:	1	8015M		_	GC (Std (5-7D) 5Hrs	Work Days =	dessa, TX 79	フログロスロ
800 San Ant. 10-955-5649 (Xenco to client universe exclusive prope		XXX K	ジヒト	70	Received hy	ADaPT SEDD ERPI	EDDs	×	×	×	×	×	×	×	×	×	×			CI			GC GC	ANAL	5	D Need results by:	Gessa: 12500 West F20 East Odessa, TX 79765 (432)563-1800	
onio 210-509-3334 Phoenix 602-437-0330 South Carolina 803-543-8099 der Xenco's standard terms and conditions unless previous try of Xenco until invoices for such data are paid in full.		XXX W	Vacar	1 Cosmining 6	Absent Unclear	MS Match Incomplete	COC & Labels												'					YSES REQU	3D 4D 5D 7D 10D	sults by:		Page
oenix 602-43: 13-8099 d conditions unless uch data are paid i			ででき	1-1' > 7\3\	Ç	Ş	Coolers													,					14D Other	Time	E	1 of 2
7-0330 previously agreed i n full. Rev		1 1 1 1 1 1 1 1 1 1	- VICEN	21 YK	3		Temp °C												Hold (CALL) on Highest Ti	Sample Run PHOn							COST	•
C.O.C. Serial # in writing. Terms of payment are Net 30 vision Date: Nov 12, 2009	Received on time to meet HTs?	VOCs rec'd w/o headspace? Proper containers used?	Custody seals intact?	Labeled with proper preservatives?	Samples intact upon arrival?	ınd?	Lab Use Only YES											REMARKS	SW Surface Water O Oil OW Ocean/Sea Water T Tissue PL Product-Liquid U Unine PS Product-Solid B Blood SL Sludge	GW Ground Water S WW Waste Water W	0.	B. HNO ₃ F. MeOH J. MCAA H ₂ SO ₄ G. Na ₂ S ₂ O ₃ K. Znac&Nat D. NaOH H. NaHSO ₄ L Asbc A	II. HCL	** Preservative Type	Size(s): 20z, 40z, 80z, 160z, 32oz , 1Gal	දි	VC Vial Clear TS Terraco VP Vial Pre-preserved AC Air Car GA Glass Amber TB Tedlar GC Glass Clear ZB Zip Loo	5
[©] days, and	Merchania Managaman Managa						S NO NIA													e Codes Soil/Sediment/Solid Mipe		J. MCAA C. K. ZnAc&NaOH L Asbc Acid&NaOH		Type Codes	-	ic Clear	TerraCore Sampler Air Canister Tedlar Bag Zip Lock Bag	Jodes

rousuii. 4143 Greenbrar Dr. Stanord, IX 77477 (281)240-4280 Od ;roool-c	lessa: 12600 West I-20 East	Odessa, IX 79765 (432)56		0#:	S S S S S S S S S S S S S S S S S S S	VC Vial Clear TS TerraCore Sampler VP Vial Pre-preserved AC Air Canister GA Glass Amber TB Tedlar Bag GC Glass Clear ZB Zin Lock Ban
Phone: (57		<u>-</u> ا	results by:			공
Fax:		Std (5-7D) 5Hrs 1D	5D 7D	10D 14D Oth		Size(s): 2oz, 4oz, 8oz, 16oz, 32oz , 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other
Zip:	260	A	NALYSES REQU			** Preservative Type Codes
Email: pm@etech	nteletinister.	OC GC			1.A.	HCL III
PO#: PA					D. H.	B. HNO ₃ F. MECH J. MCAA C H ₂ SO ₄ G. Na ₂ S ₂ O ₃ K. ZnAc&NaOH D. NaOH H. NaHSO ₄ L Asbc Acid&NaOH
Quote #:	60				PAH nly lf	
	Quartely ple	EX			Rur 2HC	Ground Water S Waste Water W
t Matrix eld	grity (Y/N) II # of ainers Exa	ВТ			L) ghest T	SW Surface Water O Oil OW Ocean/Sea Water T Tissue PL Product-Liquid U Unine
	In Oh To col	*********			on	Sludge
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A STATE OF TAX	DoD-ELAP	XLS O	EKPIMO Match Absent	3ar 1 2	3 San	Non-Conformances found?
911/19 K	200	777	бу	- Ua) Ime	Received on Wet Ice? Labeled with proper preservatives?
15 C 25		1		1-15-1010	1 X D Z	Received within holding time?
		N KA	Kente	MARITH	PPro	VOCs rect w/o headspace? Proper containers used? pH verified-acceptable, excl VOCs?
					Rec	Received on time to meet HTs?
4-902-0300 Houston and 863-646-8526 Tam	281-242-4200 Odess pa 803-543-8099 Phil	a 432-563-1800 San adelphia 610-955-56	Antonio 210-509-33: 49 South Carolina	34 Phoenix 602-43 803-543-8099	'-0330 C	CO.C. Serial #
rent between client and Xenco in full. All laboratory analytical of	for analytical and testing servi data and reports generated by	ices provided by Xenco to cliv	ent under Xenco's standard to property of Xenco until invoice	erms and conditions unless ces for such data are paid i	previously agreed in wr n full. Re <i>visio</i> i	nting. Terms of payment are Net 30 day. n Date: Nov 12, 2009
Circle One I Semi-Annua Collect Date I TX GA P NM Oth NM	State: NIM Zip: 88 Email: pm@etech Circle One Event: Daily Weekly Mo Semi-Annual Annual NIA Collect Collect Code A LA Date Time Code A L TX GA NC SC NJ PA OK LA L NM Other: Affiliation Dallas 214-902-0300 Houston 300 Lakeland 863-646-8526 Tam 300 Lakeland 863-646-8526 Tam had nutil paid in full. All laboratory analytical	Phone: (575)396-2378 Fax: (575)396-1429 State: NIM Zip: 88280 Event: Daily Weekly Monthly Quartely Annual NIA Collect Matrix Electrony Time Code* Code* Po#: PAA-C. Bryant Pres Type* Collect Matrix Electrony Comt Type* Annual NIA Collect Matrix Electrony Comt Type* Annual NIA Collect Matrix Electrony Comt Type* Annual NIA Code* Event: Daily Weekly Monthly Quartely play Interpretation of Cont Type* Annual NIA Collect Matrix Electrony Comt Type* Cont Type* Annual NIA Code* Event: Daily Weekly Monthly Quartely play Interpretation of Cont Type* Cont	Phone: (575)396-2378	Company Each Eminionistis Phone C75/390-2776 TAT Work Days = D Need results by Select Eminionistis Phone C75/390-1429 Select Days = D Need results by Select Eminionistis Select Days Se	Phone:	EAB W.O#: Field billable Hrs: Time: D 3D 4D 5D 7D 10D 14D Other LYSES REQUESTED LYSES REQUESTED A. B.





Work Order #: 648064

XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 01/07/2020 10:46:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used: R8

Sampl	e Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.5	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ coo	ler? N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6*Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ rece	eived? Yes	
#10 Chain of Custody agrees with sample labels/ma	atrix? Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	N/A	
#18 Water VOC samples have zero headspace?	N/A	

* Must be o	completed for after-hours de	elivery of samples prior to pla	acing in the refrigerator
Analyst:		PH Device/Lot#:	
	Checklist completed by:	Brianna Teel	Date: 01/09/2020
	Checklist reviewed by:	Jessica Warmer Jessica Kramer	Date: 01/09/2020

Analytical Report 648467

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry
Wrigley Piper Pipeline

17-JAN-20

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)





17-JAN-20

Project Manager: Joel Lowry

Etech Environmental & Safety Solution, Inc

P.O. Box 8469 Midland, TX 79708

Reference: XENCO Report No(s): 648467

Wrigley Piper Pipeline

Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 648467. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 648467 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 648467



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SFWW11	S	01-06-20 07:40		648467-001
SFWW12	S	01-06-20 11:33		648467-002
SFWW13	S	01-06-20 12:54		648467-003
SFWW14	S	01-07-20 08:34		648467-004
SFWW15	S	01-07-20 09:55		648467-005
SFWW16	S	01-06-20 11:46		648467-006
SFWW17	S	01-06-20 13:37		648467-007
SFEW11A	S	01-06-20 09:53		648467-008
SFEW12	S	01-06-20 11:36		648467-009
SFEW13C	S	01-06-20 14:14		648467-010
SFEW14	S	01-07-20 08:35		648467-011
SFEW15B	S	01-07-20 10:30		648467-012
SFEW16	S	01-07-20 11:48		648467-013
SFEW17	S	01-07-20 13:39		648467-014
SFFS11	S	01-06-20 09:10		648467-015
SFFS12	S	01-06-20 11:31		648467-016
SFF13B	S	01-06-20 13:47		648467-017
SFFS14	S	01-06-20 08:44		648467-018
SFFS15	S	01-07-20 09:58		648467-019
SFFS16	S	01-07-20 11:49		648467-020
SFFS17	S	01-07-20 13:41		648467-021

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wrigley Piper Pipeline

Project ID: Work Order Number(s): 648467

Report Date:

17-JAN-20

Date Received: 01/09/2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3113509 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3113660 BTEX by EPA 8021B

Lab Sample ID 648467-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 648467-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFWW11

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-001

Date Collected: 01.06.20 07.40

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<4.95	4.95	0.850	mg/kg	01.10.20 18:20	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.14.20 13:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.14.20 13:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.14.20 13:02	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	01.14.20 13:02	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogue	/ v 11000 / 01 j	233340	0 1110
1-Chlorooctane	83	70 - 135	%
o-Terphenyl	85	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

1,4-Difluorobenzene

4-Bromofluorobenzene

% Moist:

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Prep seq: 7694430

		1 1						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00198	0.00198	0.000382	mg/kg	01.17.20 08:01	U	1
Toluene	108-88-3	< 0.00198	0.00198	0.000452	mg/kg	01.17.20 08:01	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	0.000560	mg/kg	01.17.20 08:01	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397	0.00101	mg/kg	01.17.20 08:01	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	0.000342	mg/kg	01.17.20 08:01	U	1
Total Xylenes	1330-20-7	< 0.00198		0.000342	mg/kg	01.17.20 08:01	U	
Total BTEX		< 0.00198		0.000342	mg/kg	01.17.20 08:01	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

108

82

70 - 130 70 - 130





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFWW12

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-002

Date Collected: 01.06.20 11.33

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

% Moist:

Prep Method: E300P

Analyst:

CHE

Tech:

CHE

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.00	5.00	0.858	mg/kg	01.10.20 19:39	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

Tech:

8015

Analyst:

ARM

% Moist:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.14.20 13:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.14.20 13:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.14.20 13:59	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	01.14.20 13:59	U	

Surrogate	% Recovery	Limits Units	
1-Chlorooctane	82	70 - 135 %	
o-Terphenyl	84	70 - 135 %	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000384	mg/kg	01.17.20 08:21	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000455	mg/kg	01.17.20 08:21	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000564	mg/kg	01.17.20 08:21	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	0.00101	mg/kg	01.17.20 08:21	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.17.20 08:21	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	01.17.20 08:21	U	
Total BTEX		< 0.00200		0.000344	mg/kg	01.17.20 08:21	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		109		70 -	130 %	ó		
4-Bromofluorobenzene		83		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFWW13

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-003

Date Collected: 01.06.20 12.54

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.05	5.05	0.867	mg/kg	01.10.20 19:45	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.14.20 14:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.14.20 14:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.14.20 14:17	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.14.20 14:17	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogue	/ v 11000 / 01 j	23111145	C11110
1-Chlorooctane	83	70 - 135	%
o-Terphenyl	85	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

% Moist:

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

		Tiep seq. 707 1130						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00198	0.00198	0.000382	mg/kg	01.17.20 08:41	U	1
Toluene	108-88-3	< 0.00198	0.00198	0.000452	mg/kg	01.17.20 08:41	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	0.000560	mg/kg	01.17.20 08:41	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397	0.00101	mg/kg	01.17.20 08:41	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	0.000342	mg/kg	01.17.20 08:41	U	1
Total Xylenes	1330-20-7	< 0.00198		0.000342	mg/kg	01.17.20 08:41	U	
Total BTEX		< 0.00198		0.000342	mg/kg	01.17.20 08:41	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		107		70 -	130 %	6		
4-Bromofluorobenzene		76		70 -	130 %	6		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFWW14

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-004

Date Collected: 01.07.20 08.34

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor
Chloride	16887-00-6	18.8	4.99	0.857	mg/kg	01.10.20 19:52	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.14.20 14:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.14.20 14:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.14.20 14:36	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.14.20 14:36	U	
Surrogate		% Recovery		Limits	Uni	ts Analysis	Date	Flag

83

85

o-Terphenyl

Prep Method: 5030B

%

%

Analyst:

% Moist:

Tech:

70 - 135

70 - 135

KTL

Seq Number: 3113660

1-Chlorooctane

Analytical Method: BTEX by EPA 8021B

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	01.17.20 09:01	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000454	mg/kg	01.17.20 09:01	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000563	mg/kg	01.17.20 09:01	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	01.17.20 09:01	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000343	mg/kg	01.17.20 09:01	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000343	mg/kg	01.17.20 09:01	U	
Total BTEX		< 0.00199		0.000343	mg/kg	01.17.20 09:01	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		110		70 -	130 %			
4-Bromofluorobenzene		78		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFWW15

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-005

Date Collected: 01.07.20 09.55

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	6.85	5.04	0.865	mg/kg	01.10.20 19:59		1

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	01.14.20 14:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	01.14.20 14:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	01.14.20 14:55	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	01.14.20 14:55	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flao

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1-Chlorooctane	83	70 - 135	%
o-Terphenyl	85	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

	1						
CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
71-43-2	< 0.00199	0.00199	0.000383	mg/kg	01.17.20 09:21	U	1
108-88-3	< 0.00199	0.00199	0.000454	mg/kg	01.17.20 09:21	U	1
100-41-4	< 0.00199	0.00199	0.000563	mg/kg	01.17.20 09:21	U	1
179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	01.17.20 09:21	U	1
95-47-6	< 0.00199	0.00199	0.000343	mg/kg	01.17.20 09:21	U	1
1330-20-7	< 0.00199		0.000343	mg/kg	01.17.20 09:21	U	
	< 0.00199		0.000343	mg/kg	01.17.20 09:21	U	
	% Recovery		Limits	Uni	its Analysis	Date	Flag
	110		70 -	130 %	ó		
	82		70 -	130 %	ó		
	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	CAS Number Result 71-43-2 <0.00199	CAS Number Result MQL 71-43-2 <0.00199	CAS Number Result MQL SDL 71-43-2 <0.00199	CAS Number Result MQL SDL Units 71-43-2 <0.00199	CAS Number Result MQL SDL Units Analysis Date 71-43-2 <0.00199	CAS Number Result MQL SDL Units Analysis Date Flag 71-43-2 <0.00199





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFWW16

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-006

Date Collected: 01.06.20 11.46

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor
Chloride	16887-00-6	36.6	5.00	0.858	mg/kg	01.10.20 20:19	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.14.20 15:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.14.20 15:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.14.20 15:14	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	01.14.20 15:14	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogue	70 22000 1013	23111145	C11165
1-Chlorooctane	84	70 - 135	%
o-Terphenyl	86	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

4-Bromofluorobenzene

% Moist:

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Prep seq: 7694430

		1 1						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	01.17.20 09:41	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000454	mg/kg	01.17.20 09:41	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000563	mg/kg	01.17.20 09:41	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	01.17.20 09:41	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000343	mg/kg	01.17.20 09:41	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000343	mg/kg	01.17.20 09:41	U	
Total BTEX		< 0.00199		0.000343	mg/kg	01.17.20 09:41	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		106		70 -	130 %	ó		

80

70 - 130





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFWW17

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-007

Date Collected: 01.06.20 13.37

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

Parame	ter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	<u>)</u>	16887-00-6	6.44	4.98	0.855	mg/kg	01.10.20 20:25	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.14.20 15:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.14.20 15:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.14.20 15:33	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	01.14.20 15:33	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

~	, = ======		0
1-Chlorooctane	81	70 - 135	%
o-Terphenyl	83	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Result	MQL	SDL	TT .*4	Analysis		Dil Facto
		~	Units	Date	Flag	Dii Facu
< 0.00200	0.00200	0.000384	mg/kg	01.17.20 10:04	U	1
< 0.00200	0.00200	0.000455	mg/kg	01.17.20 10:04	U	1
< 0.00200	0.00200	0.000564	mg/kg	01.17.20 10:04	U	1
< 0.00399	0.00399	0.00101	mg/kg	01.17.20 10:04	U	1
< 0.00200	0.00200	0.000344	mg/kg	01.17.20 10:04	U	1
< 0.00200		0.000344	mg/kg	01.17.20 10:04	U	
< 0.00200		0.000344	mg/kg	01.17.20 10:04	U	
% Recovery		Limits	Uni	its Analysis l	Date	Flag
111		70 -	130 %	ó		
84		70 -	130 %	5		
	<0.00200 <0.00200 1 <0.00399 <0.00200 <0.00200 <0.00200 % Recovery	<0.00200 0.00200 <0.00200 0.00200 1 <0.00399 0.00399 <0.00200 0.00200 <0.00200 <0.00200 Recovery	<0.00200	<0.00200	<0.00200	<0.00200





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFEW11A

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-008

Date Collected: 01.06.20 09.53

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

Paramete	r CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor
Chloride	16887-00-6	6.46	5.00	0.858	mg/kg	01.10.20 20:45	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	01.14.20 15:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	01.14.20 15:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	01.14.20 15:51	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	01.14.20 15:51	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	81	70 - 135	%	
o-Terphenyl	81	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	01.17.20 10:24	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000454	mg/kg	01.17.20 10:24	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000563	mg/kg	01.17.20 10:24	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	01.17.20 10:24	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000343	mg/kg	01.17.20 10:24	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000343	mg/kg	01.17.20 10:24	U	
Total BTEX		< 0.00199		0.000343	mg/kg	01.17.20 10:24	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		109		70 -	130 %	5		
4-Bromofluorobenzene		80		70 -	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFEW12

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-009

Date Collected: 01.06.20 11.36

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	3190	25.2	4.32	mg/kg	01.10.20 20:52	5

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.15.20 10:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.15.20 10:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.15.20 10:41	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	01.15.20 10:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date
1-Chlorooctane	86	70 - 135	%	
o-Terphenyl	89	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Flag

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00198	0.00198	0.000381	mg/kg	01.17.20 10:45	U	1
Toluene	108-88-3	< 0.00198	0.00198	0.000451	mg/kg	01.17.20 10:45	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	0.000559	mg/kg	01.17.20 10:45	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396	0.00100	mg/kg	01.17.20 10:45	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	0.000341	mg/kg	01.17.20 10:45	U	1
Total Xylenes	1330-20-7	< 0.00198		0.000341	mg/kg	01.17.20 10:45	U	
Total BTEX		< 0.00198		0.000341	mg/kg	01.17.20 10:45	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1,4-Difluorobenzene		111		70 -	130 %	6		
4-Bromofluorobenzene		83		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFEW13C

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-010

Date Collected: 01.06.20 14.14

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

% Moist:

CHE

Tech:

CHE

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

	Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
(Chloride	16887-00-6	10.9	5.05	0.867	mg/kg	01.10.20 20:59		1

Seq Number: 3113298

Analytical Method: TPH By SW8015 Mod

Prep Method:

Tech:

8015

DVM

Analyst:

ARM

% Moist:

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.14.20 16:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.14.20 16:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.14.20 16:29	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.14.20 16:29	U	

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	84	70 - 135	%
o-Terphenyl	86	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000386	mg/kg	01.17.20 11:05	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000457	mg/kg	01.17.20 11:05	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000566	mg/kg	01.17.20 11:05	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401	0.00102	mg/kg	01.17.20 11:05	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000345	mg/kg	01.17.20 11:05	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000345	mg/kg	01.17.20 11:05	U	
Total BTEX		< 0.00200		0.000345	mg/kg	01.17.20 11:05	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		111		70 -	130 %	5		
4-Bromofluorobenzene		82		70 -	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFEW14

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-011

Date Collected: 01.07.20 08.35

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

Pa	arameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Facto Flag	r
Ch	loride	16887-00-6	3210	25.0	4.28	mg/kg	01.10.20 21:05	5	

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.14.20 17:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.14.20 17:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.14.20 17:07	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.14.20 17:07	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	81	70 - 135	%
o-Terphenyl	84	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00201	0.00201	0.000386	mg/kg	01.17.20 12:24	U	1
Toluene	108-88-3	< 0.00201	0.00201	0.000457	mg/kg	01.17.20 12:24	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	0.000567	mg/kg	01.17.20 12:24	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	01.17.20 12:24	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	0.000346	mg/kg	01.17.20 12:24	U	1
Total Xylenes	1330-20-7	< 0.00201		0.000346	mg/kg	01.17.20 12:24	U	
Total BTEX		< 0.00201		0.000346	mg/kg	01.17.20 12:24	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		107		70 -	130 %	6		
4-Bromofluorobenzene		74		70 -	130 %	6		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFEW15B

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-012

Date Collected: 01.07.20 10.30

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.01	5.01	0.860	mg/kg	01.10.20 21:12	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	01.14.20 17:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.14.20 17:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.14.20 17:26	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	01.14.20 17:26	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units	A
1-Chlorooctane	94	70 - 135	%	
o-Terphenyl	96	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Prep seq: 7694430

		1 1						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	01.17.20 12:44	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000453	mg/kg	01.17.20 12:44	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000561	mg/kg	01.17.20 12:44	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	01.17.20 12:44	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000342	mg/kg	01.17.20 12:44	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000342	mg/kg	01.17.20 12:44	U	
Total BTEX		< 0.00199		0.000342	mg/kg	01.17.20 12:44	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

% Recovery 108 % 1,4-Difluorobenzene 70 - 130 4-Bromofluorobenzene 82 70 - 130





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFEW16

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-013

Date Collected: 01.07.20 11.48

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

CHE

Tech:

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	12.1	4.98	0.855	mg/kg	01.10.20 21:19	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.14.20 17:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.14.20 17:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.14.20 17:45	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	01.14.20 17:45	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

~ ·	, , =====,		
1-Chlorooctane	85	70 - 135	%
o-Terphenyl	87	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

% Moist:

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00198	0.00198	0.000381	mg/kg	01.17.20 13:04	U	1
Toluene	108-88-3	< 0.00198	0.00198	0.000451	mg/kg	01.17.20 13:04	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	0.000559	mg/kg	01.17.20 13:04	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396	0.00100	mg/kg	01.17.20 13:04	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	0.000341	mg/kg	01.17.20 13:04	U	1
Total Xylenes	1330-20-7	< 0.00198		0.000341	mg/kg	01.17.20 13:04	U	
Total BTEX		< 0.00198		0.000341	mg/kg	01.17.20 13:04	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		109		70 -	130 %	5		
4-Bromofluorobenzene		80		70 -	130 %	Ď		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFEW17

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-014

Date Collected: 01.07.20 13.39

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number:

3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

CAS Dil Factor Analysis MQL SDL Flag **Parameter** Result Units Number Date Chloride 16887-00-6 2990 24.8 4.25 01.10.20 21:25 5 mg/kg

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.14.20 18:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.14.20 18:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.14.20 18:04	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.14.20 18:04	U	

Surrogate	% Recovery	Limits Units
1-Chlorooctane	82	70 - 135 %
o-Terphenyl	84	70 - 135 %

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number:

3113660

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Fact
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	01.17.20 13:24	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000454	mg/kg	01.17.20 13:24	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000563	mg/kg	01.17.20 13:24	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	01.17.20 13:24	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000343	mg/kg	01.17.20 13:24	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000343	mg/kg	01.17.20 13:24	U	
Total BTEX		< 0.00199		0.000343	mg/kg	01.17.20 13:24	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		109		70 -	130 %	ó		
4-Bromofluorobenzene		78		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFFS11

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-015

Date Collected: 01.06.20 09.10

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112944

Date Prep: 01.10.20 16.35

Prep seq: 7694153

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	3650	25.0	4.28	mg/kg	01.10.20 21:21	5

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.14.20 18:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.14.20 18:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.14.20 18:23	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.14.20 18:23	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

	•		
1-Chlorooctane	83	70 - 135	%
o-Terphenyl	86	70 - 135	%

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00201	0.00201	0.000387	mg/kg	01.17.20 13:44	U	1
Toluene	108-88-3	< 0.00201	0.00201	0.000458	mg/kg	01.17.20 13:44	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	0.000568	mg/kg	01.17.20 13:44	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	01.17.20 13:44	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	0.000346	mg/kg	01.17.20 13:44	U	1
Total Xylenes	1330-20-7	< 0.00201		0.000346	mg/kg	01.17.20 13:44	U	
Total BTEX		< 0.00201		0.000346	mg/kg	01.17.20 13:44	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		106		70 -	130 %	6		
4-Bromofluorobenzene		76		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFFS12

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-016

Date Collected: 01.06.20 11.31

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112944

Date Prep: 01.10.20 16.35

Prep seq: 7694153

]	Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
(Chloride	16887-00-6	9.99	5.00	0.858	mg/kg	01.10.20 21:01		1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.14.20 18:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.14.20 18:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.14.20 18:41	U	1
Total TPH	PHC635	< 50.0		15.0	mg/kg	01.14.20 18:41	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

~ · · · · · · · ·	, , =====,		
1-Chlorooctane	98	70 - 135	%
o-Terphenyl	101	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00198	0.00198	0.000382	mg/kg	01.17.20 14:04	U	1
Toluene	108-88-3	< 0.00198	0.00198	0.000452	mg/kg	01.17.20 14:04	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	0.000560	mg/kg	01.17.20 14:04	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397	0.00101	mg/kg	01.17.20 14:04	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	0.000342	mg/kg	01.17.20 14:04	U	1
Total Xylenes	1330-20-7	< 0.00198		0.000342	mg/kg	01.17.20 14:04	U	
Total BTEX		< 0.00198		0.000342	mg/kg	01.17.20 14:04	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1,4-Difluorobenzene		108		70 -	130 %	6		
4-Bromofluorobenzene		76		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFF13B

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-017

Date Collected: 01.06.20 13.47

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112944

Date Prep: 01.10.20 16.35

Prep seq: 7694153

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag Dil Factor
Chloride	16887-00-6	29.3	5.05	0.867	mg/kg	01.10.20 21:28	1

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.14.20 19:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.14.20 19:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.14.20 19:00	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	01.14.20 19:00	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1-Chlorooctane		83		70 -	135 %			

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

% Moist:

Tech:

%

70 - 135

KTL

Seq Number: 3113660

o-Terphenyl

Date Prep: 01.15.20 11.00

86

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Fact
Benzene	71-43-2	< 0.00200	0.00200	0.000384	mg/kg	01.17.20 14:25	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000455	mg/kg	01.17.20 14:25	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000564	mg/kg	01.17.20 14:25	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	0.00101	mg/kg	01.17.20 14:25	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.17.20 14:25	U	1
Total Xylenes	1330-20-7	< 0.00200		0.000344	mg/kg	01.17.20 14:25	U	
Total BTEX		< 0.00200		0.000344	mg/kg	01.17.20 14:25	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		111		70 -	130 %	ó		
4-Bromofluorobenzene		81		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFFS14

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-018

Date Collected: 01.06.20 08.44

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech: CHE

Seq Number: 3112944

Date Prep: 01.10.20 16.35

Prep seq: 7694153

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<4.99	4.99	0.857	mg/kg	01.10.20 22:34	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method:

Tech:

8015

Analyst:

ARM

% Moist:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	01.15.20 11:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	01.15.20 11:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	01.15.20 11:00	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	01.15.20 11:00	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units	Analysis Dat
1-Chlorooctane	84	70 - 135	%	
o-Terphenyl	87	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

5030B Prep Method:

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00202	0.00202	0.000388	mg/kg	01.17.20 14:45	U	1
Toluene	108-88-3	< 0.00202	0.00202	0.000459	mg/kg	01.17.20 14:45	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	0.000569	mg/kg	01.17.20 14:45	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	0.00102	mg/kg	01.17.20 14:45	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	0.000347	mg/kg	01.17.20 14:45	U	1
Total Xylenes	1330-20-7	< 0.00202		0.000347	mg/kg	01.17.20 14:45	U	
Total BTEX		< 0.00202		0.000347	mg/kg	01.17.20 14:45	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1,4-Difluorobenzene		112		70 -	130 %			
4-Bromofluorobenzene		80		70 -	130 %	ó		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFFS15

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-019

Date Collected: 01.07.20 09.58

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112944

Date Prep: 01.10.20 16.35

Prep seq: 7694153

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	4520	24.8	4.26	mg/kg	01.10.20 21:34	5

Analytical Method: TPH By SW8015 Mod

Prep Method:

Tech:

8015

Analyst:

ARM

% Moist:

Date Prep: 01.14.20 11.00

DVM

Seq Number: 3113298

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.14.20 19:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.14.20 19:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.14.20 19:37	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	01.14.20 19:37	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units	Ana
1-Chlorooctane	83	70 - 135	%	
o-Terphenyl	85	70 - 135	%	

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00201	0.00201	0.000386	mg/kg	01.17.20 15:05	U	1
Toluene	108-88-3	< 0.00201	0.00201	0.000457	mg/kg	01.17.20 15:05	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	0.000567	mg/kg	01.17.20 15:05	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	01.17.20 15:05	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	0.000346	mg/kg	01.17.20 15:05	U	1
Total Xylenes	1330-20-7	< 0.00201		0.000346	mg/kg	01.17.20 15:05	U	
Total BTEX		< 0.00201		0.000346	mg/kg	01.17.20 15:05	U	
Surrogate		% Recovery		Limits	Uni	ts Analysis	Date	Flag
1,4-Difluorobenzene		112		70 -	130 %)		
4-Bromofluorobenzene		80		70 -	130 %	1		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFFS16

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-020

Date Collected: 01.07.20 11.49

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Date Prep: 01.10.20 16.35

Tech:

CHE

Seq Number: 3112944

Prep seq: 7694153

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Dil Factor Flag
Chloride	16887-00-6	2420	24.8	4.26	mg/kg	01.10.20 21:41	5

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

ARM

% Moist:

Tech:

DVM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.14.20 19:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.14.20 19:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.14.20 19:55	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.14.20 19:55	U	
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag

~ ·	,		
1-Chlorooctane	83	70 - 135	%
o-Terphenyl	86	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00199	0.00199	0.000383	mg/kg	01.17.20 15:25	U	1
Toluene	108-88-3	< 0.00199	0.00199	0.000453	mg/kg	01.17.20 15:25	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	0.000561	mg/kg	01.17.20 15:25	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	0.00101	mg/kg	01.17.20 15:25	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	0.000342	mg/kg	01.17.20 15:25	U	1
Total Xylenes	1330-20-7	< 0.00199		0.000342	mg/kg	01.17.20 15:25	U	
Total BTEX		< 0.00199		0.000342	mg/kg	01.17.20 15:25	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		111		70 -	130 %	5		
4-Bromofluorobenzene		82		70 -	130 %	,		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFFS17

Matrix:

Soil

Sample Depth:

Lab Sample Id: 648467-021

Date Collected: 01.07.20 13.41

Date Received: 01.09.20 11.56

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number:

3112944

Date Prep: 01.10.20 16.35

Prep seq: 7694153

CAS Dil Factor Analysis Result MQL SDL Flag **Parameter** Units Number Date Chloride 16887-00-6 22.4 5.00 0.858 01.10.20 22:01 mg/kg

Analytical Method: TPH By SW8015 Mod

Prep Method:

Tech:

8015

Analyst:

DVM

% Moist:

DVM

Seq Number: 3113152

Date Prep: 01.10.20 14.00

Prep seq: 7694130

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	01.11.20 05:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	01.11.20 05:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	01.11.20 05:35	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	01.11.20 05:35	U	
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag

Surrogate	% Recovery	Limits	Units
1-Chlorooctane	103	70 - 135	%
o-Terphenyl	103	70 - 135	%

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Seq Number:

3113509

Date Prep: 01.15.20 10.30

	F I.						
CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
71-43-2	< 0.00201	0.00201	0.000386	mg/kg	01.15.20 14:42	U	1
108-88-3	< 0.00201	0.00201	0.000457	mg/kg	01.15.20 14:42	U	1
100-41-4	< 0.00201	0.00201	0.000567	mg/kg	01.15.20 14:42	U	1
179601-23-1	< 0.00402	0.00402	0.00102	mg/kg	01.15.20 14:42	U	1
95-47-6	< 0.00201	0.00201	0.000346	mg/kg	01.15.20 14:42	U	1
1330-20-7	< 0.00201		0.000346	mg/kg	01.15.20 14:42	U	
	< 0.00201		0.000346	mg/kg	01.15.20 14:42	U	
	% Recovery		Limits	Uni	its Analysis	Date	Flag
	106		70 -	130 %	ó		
	78		70 -	130 %	ó		
	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	CAS Number Result 71-43-2 <0.00201	CAS Number Result MQL 71-43-2 <0.00201	CAS Number Result MQL SDL 71-43-2 <0.00201	CAS Number Result MQL SDL Units 71-43-2 <0.00201	CAS Number Result MQL SDL Units Analysis Date 71-43-2 <0.00201	CAS Number Result MQL SDL Units Analysis Date Flag 71-43-2 <0.00201





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

7694130-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7694130-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 8015

Analyst:

DVM

% Moist:

DVM

Tech:

Seq Number: 3113152

Date Prep: 01.10.20 14.00

Prep seq: 7694130

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.10.20 21:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.10.20 21:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	01.10.20 21:11	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	106	70 - 135	%		

Sample Id:

7694152-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7694152-1-BLK

Date Collected:

Date Received:

Analytical Method: Chloride by EPA 300

% Moist:

Prep Method: E300P

Analyst:

CHE

Tech:

CHE

Seq Number: 3112945

Date Prep: 01.10.20 14.00

Prep seq: 7694152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.00	5.00	0.858	mg/kg	01.10.20 18:00	U	1

Sample Id:

7694153-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7694153-1-BLK

Date Collected:

Date Received:

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3112944

Date Prep: 01.10.20 16.35

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 5.00	5.00	0.858	mg/kg	01.10.20 20:41	U	1





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

7694306-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7694306-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method:

8015

Analyst:

% Moist:

Tech:

DVM

ARM

Seq Number: 3113298

Date Prep: 01.14.20 11.00

Prep seq: 7694306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0	15.0	mg/kg	01.14.20 12:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0	15.0	mg/kg	01.14.20 12:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0	15.0	mg/kg	01.14.20 12:06	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	96	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Sample Id:

7694429-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7694429-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method:

5030B

Analyst:

KTL

% Moist:

Tech:

KTL

Analysis Date

Flag

Seq Number: 3113509

Date Prep: 01.15.20 10.30

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	01.15.20 14:22	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	01.15.20 14:22	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	01.15.20 14:22	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	01.15.20 14:22	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.15.20 14:22	U	1

Surrogate	% Recovery	Limits	Units
1,4-Difluorobenzene	99	70 - 130	%
4-Bromofluorobenzene	75	70 - 130	0/0





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

7694430-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7694430-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst:

% Moist:

KTL

Tech:

KTL

Seq Number: 3113660

Date Prep: 01.15.20 11.00

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Benzene	71-43-2	< 0.00200	0.00200	0.000385	mg/kg	01.17.20 07:41	U	1
Toluene	108-88-3	< 0.00200	0.00200	0.000456	mg/kg	01.17.20 07:41	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	0.000565	mg/kg	01.17.20 07:41	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400	0.00101	mg/kg	01.17.20 07:41	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	0.000344	mg/kg	01.17.20 07:41	U	1
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1,4-Difluorobenzene		98		70 -	130 %			
4-Bromofluorobenzene		70		70 -	130 %	Ď		



Flagging Criteria



- Page 608 of 744
- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Project Name: Wrigley Piper Pipeline

Work Orders 648467,

Project ID:

Lab Batch #:3113509

Sample: 7694429-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/15/20 12:23	Units: mg/kg Date Analyzed: 01/15/20 12:23 SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0314	0.0300	105	70-130			
4-Bromofluorobenzene	0.0280	0.0300	93	70-130			

Lab Batch #:3113509

Sample: 7694429-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 01/15/20 12:43	SU	RROGATE RI	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0311	0.0300	104	70-130	
4-Bromofluorobenzene	0.0267	0.0300	89	70-130	

Lab Batch #:3113509

Sample: 648467-021 S / MS

Batch:

Matrix:Soil

Units: mg/kg Date Analyzed: 01/15/20 13:03	SU	RROGATE RI	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0280	0.0300	93	70-130	

Lab Batch #:3113509

Sample: 648467-021 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 01/15/20	13:24 SI	JRROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0276	0.0300	92	70-130	

Lab Batch #:3113509

Sample: 7694429-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 01/15/20 14:22	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0298	0.0300	99	70-130	
4-Bromofluorobenzene	0.0224	0.0300	75	70-130	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Wrigley Piper Pipeline

Work Orders 648467,

Project ID:

Lab Batch #:3113660

Sample: 7694430-1-BKS / BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/17/20 05:41	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0323	0.0300	108	70-130	
4-Bromofluorobenzene	0.0267	0.0300	89	70-130	

Lab Batch #:3113660

Sample: 7694430-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 01/17/20 06:02	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0324	0.0300	108	70-130	
4-Bromofluorobenzene	0.0266	0.0300	89	70-130	

Lab Batch #: 3113660

Sample: 648467-001 S / MS

Batch:

Matrix:Soil

Units: mg/kg Date Analyzed: 01/17/20 06:22	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0324	0.0300	108	70-130	
4-Bromofluorobenzene	0.0264	0.0300	88	70-130	

Lab Batch #:3113660

Sample: 648467-001 SD / MSD

Batch:

1

Matrix:Soil

Units: mg/kg Date Analyzed: 01/17/20 06:42	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0273	0.0300	91	70-130	

Lab Batch #:3113660

Sample: 7694430-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 01/17/20 07:41	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0295	0.0300	98	70-130	
4-Bromofluorobenzene	0.0210	0.0300	70	70-130	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Wrigley Piper Pipeline

Work Orders 648467,

Project ID:

Lab Batch #:3113152

Sample: 7694130-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/10/20 21:11	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	53.0	50.0	106	70-135	

Lab Batch #:3113152

Sample: 7694130-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg Date Analyzed: 01/10/20 21:32	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	129	100	129	70-135		
o-Terphenyl	62.0	50.0	124	70-135		

Lab Batch #: 3113152

Sample: 7694130-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/10/20 21:53	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	60.5	50.0	121	70-135	

Lab Batch #:3113152

Sample: 648287-001 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 01/10/20 22:36	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	120	99.7	120	70-135	
o-Terphenyl	56.8	49.9	114	70-135	

Lab Batch #:3113152

Sample: 648287-001 SD / MSD

SD **Batch:** 1

1 Matrix: Soil

Units: mg/kg Date Analyzed: 01/10/20 22:56	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	99.9	115	70-135	
o-Terphenyl	55.6	50.0	111	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Wrigley Piper Pipeline

Work Orders 648467,

Project ID:

Lab Batch #: 3113298

Sample: 7694306-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 01/14/20 12:06	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			[2]		
1-Chlorooctane	95.9	100	96	70-135	
o-Terphenyl	50.4	50.0	101	70-135	

Lab Batch #:3113298

Sample: 7694306-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg

/kg Date Analyzed: 01/14/20 12:24	SU	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
	105	100	105	70-135					

Lab Batch #:3113298

1-Chlorooctane o-Terphenyl

Sample: 7694306-1-BSD / BSD

Batch:

Matrix: Solid

94

70-135

50.0

Units: mg/kg Date Analyzed: 01/14/20 12:43	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	104	100	104	70-135	
o-Terphenyl	48.4	50.0	97	70-135	

47.1

Lab Batch #:3113298

Sample: 648467-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 01/14/20 13:21	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes					
1-Chlorooctane		103	99.6	103	70-135	
o-Terphenyl		45.1	49.8	91	70-135	

Lab Batch #:3113298

Sample: 648467-001 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 01/14/20 13:40	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	99.7	104	70-135	
o-Terphenyl	44.1	49.9	88	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



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Project Name: Wrigley Piper Pipeline

Work Order #: 648467

Project ID:

Analyst:

KTL

Date Prepared: 01/15/2020

Date Analyzed: 01/15/2020

Lab Batch ID: 3113509

Sample: 7694429-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[C]	[D]	[E]	Result [F]	[G]	70	/0 K	/0Ki D	
Benzene	< 0.000385	0.100	0.111	111	0.100	0.103	103	7	70-130	35	
Toluene	< 0.000456	0.100	0.104	104	0.100	0.0925	93	12	70-130	35	
Ethylbenzene	< 0.000565	0.100	0.0996	100	0.100	0.0882	88	12	70-130	35	
m,p-Xylenes	< 0.00101	0.200	0.195	98	0.200	0.172	86	13	70-130	35	
o-Xylene	< 0.000344	0.100	0.0967	97	0.100	0.0860	86	12	70-130	35	

Analyst:

Units:

KTL

mg/kg

Date Prepared: 01/15/2020

Date Analyzed: 01/17/2020

Lab Batch ID: 3113660

Sample: 7694430-1-BKS

Batch #: 1

Matrix: Solid

		DEI II (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				ILE CO 1 E	HI SICD	-	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene	< 0.000385	0.100	0.113	113	0.100	0.105	105	7	70-130	35	
Toluene	0.000680	0.100	0.100	100	0.100	0.0927	93	8	70-130	35	
Ethylbenzene	< 0.000565	0.100	0.0924	92	0.100	0.0865	87	7	70-130	35	
m,p-Xylenes	< 0.00101	0.200	0.180	90	0.200	0.169	85	6	70-130	35	
o-Xylene	< 0.000344	0.100	0.0910	91	0.100	0.0858	86	6	70-130	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries



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Project Name: Wrigley Piper Pipeline

Work Order #: 648467

Project ID:

Analyst:

CHE

Date Prepared: 01/10/2020

Date Analyzed: 01/10/2020

Lab Batch ID: 3112945

Sample: 7694152-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	248	99	250	244	98	2	90-110	20	

Analyst:

CHE

Date Prepared: 01/10/2020

Date Analyzed: 01/10/2020

Lab Batch ID: 3112944

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[2]	[0]	[2]	[2]	11000010 [1]	[0]				
Chloride	< 0.858	250	240	96	250	240	96	0	90-110	20	

Analyst:

DVM

Date Prepared: 01/10/2020

Date Analyzed: 01/10/2020

Lab Batch ID: 3113152

Sample: 7694130-1-BKS

Sample: 7694153-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	33.3	1000	1020	102	1000	992	99	3	70-135	20	
Diesel Range Organics (DRO)	22.5	1000	1020	102	1000	1000	100	2	70-135	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes

Version: 1.%



BS / BSD Recoveries



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Project Name: Wrigley Piper Pipeline

Work Order #: 648467

Project ID:

Analyst:

ARM

Date Prepared: 01/14/2020

Date Analyzed: 01/14/2020

Lab Batch ID: 3113298

Sample: 7694306-1-BKS

Batch #: 1

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	869	87	1000	853	85	2	70-135	20	
Diesel Range Organics (DRO)	<15.0	1000	820	82	1000	814	81	1	70-135	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

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Project Name: Wrigley Piper Pipeline

Work Order #:

648467 3113509

QC- Sample ID: 648467-021 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: **Date Analyzed:**

01/15/2020

Date Prepared: 01/15/2020

Analyst: KTL

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000385	0.100	0.0963	96	0.0998	0.101	101	5	70-130	35	
Toluene	< 0.000456	0.100	0.0903	90	0.0998	0.0908	91	1	70-130	35	
Ethylbenzene	< 0.000565	0.100	0.0864	86	0.0998	0.0852	85	1	70-130	35	
m,p-Xylenes	< 0.00101	0.200	0.169	85	0.200	0.165	83	2	70-130	35	
o-Xylene	< 0.000344	0.100	0.0843	84	0.0998	0.0833	83	1	70-130	35	

Lab Batch ID:

3113660

QC- Sample ID: 648467-001 S

Batch #:

Matrix: Soil

Date Analyzed:

01/17/2020

Date Prepared: 01/15/2020

Analyst: KTL

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000383	0.0994	0.0680	68	0.0994	0.0662	67	3	70-130	35	X
Toluene	< 0.000453	0.0994	0.0500	50	0.0994	0.0521	52	4	70-130	35	X
Ethylbenzene	< 0.000561	0.0994	0.0406	41	0.0994	0.0440	44	8	70-130	35	X
m,p-Xylenes	< 0.00101	0.199	0.0791	40	0.199	0.0870	44	10	70-130	35	X
o-Xylene	< 0.000342	0.0994	0.0412	41	0.0994	0.0448	45	8	70-130	35	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Page 617 of 744

Project Name: Wrigley Piper Pipeline

Work Order #:

648467 3112944

QC- Sample ID: 648467-016 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: **Date Analyzed:**

01/10/2020

Date Prepared: 01/10/2020

Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	9.99	250	266	102	250	268	103	1	90-110	20	

Lab Batch ID:

3112944

QC- Sample ID: 648467-018 S

Batch #:

Matrix: Soil

Date Analyzed:

01/10/2020

Date Prepared: 01/10/2020

Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	4.37	250	267	105	250	267	105	0	90-110	20	

Lab Batch ID:

3112945

QC- Sample ID: 648467-001 S

Batch #:

Matrix: Soil

Date Analyzed:

01/10/2020

Date Prepared: 01/10/2020

1 Analyst: CHE

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

	Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Ī	Chloride	3.06	248	265	106	248	262	104	1	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Page 618 of 744

Project Name: Wrigley Piper Pipeline

Work Order #:

648467 3112945

QC- Sample ID: 648467-005 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

01/10/2020

Date Prepared: 01/10/2020

Analyst: CHE

Reporting Units:

mg/kg

Analyst. CIL

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	6.85	252	277	107	252	277	107	0	90-110	20	

Lab Batch ID:

3113152

QC- Sample ID: 648287-001 S

Batch #:

Matrix: Soil

Date Analyzed:

01/10/2020

Date Prepared: 01/10/2020

Analyst: DVM

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	31.3	997	1060	103	999	1020	99	4	70-135	20	
Diesel Range Organics (DRO)	17.1	997	1090	108	999	1050	103	4	70-135	20	

Lab Batch ID:

3113298

OC- Sample ID: 648467-001 S

Batch #:

1 Matrix: Soil

Date Analyzed:

01/14/2020

Date Prepared: 01/14/2020

Analyst: ARM

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R		Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]	Kesuit [F]	[G]	70	/0K	70KI D	
Gasoline Range Hydrocarbons (GRO)	<14.9	996	812	82	997	827	83	2	70-135	20	
Diesel Range Organics (DRO)	<14.9	996	772	78	997	788	79	2	70-135	20	

GHAIN OF CUSTODY RECORD CHAIN OF CUSTODY RECORD	HAN 0	Odessa: 12600 We	CHAIN OF CUSTODY RECORD IX 77477 (281)240-4200 Odessa: 12600 West 1-20 East Odessa, TX 79765 (432)563-1800	Page1_ W O # ·
				Field billable Hrs:
pany: Etech Environmental	Phor	Phone: (575)396-2378	TAT Work Days = D Need results by:	ov: Time:
ess: 3100 Plains Hwy.	Fax:	(575)396-1429	Std (5-7D) 5Hrs 1D 2D 3D	D 7D 10D 14D Off
Lovington	State: NM Zip:	88260	ANALYSES	ES REQUESTED
ttn: Joel Lowry Email:		pm@etechenv.com	contlype GC GC GC	
ct ID: Wrigley to Piper Pipeline	P0#:	PAA-C Bryant		

										י פוט טוומטופ ו ווא.	יטוכו ווס.			PA	Plastic Amber PC	Plastic Clear
Company.	Ftech Environmental			Į į	(575)396-2378	TAT Wo	Work Days =	D Need re	d results by:	×. 		Time:	те: 	Other	Plastic Clear	
Address:	3100 Plains Hwy.			Fax: (5	(575)396-1429	.	Std (5-7D) 5Hrs	5Hrs 1D	2	4D 5D 7D) 10D 14D	ဋ		Siz	Size(s): 20z, 40z, 80z, 160z, 32oz , 1Gal 40m) 125 ml 250 ml 500 ml 11 Other	1Gal
City:	Lovington	(0	State: NM	Zip: 88	88260				5	S REQ					** Preservative Type Codes	pe Codes
PM/Attn:	Joel Lowry	Е	Email:	pm@etechenv.com	env.com	Cont Type *	GC (GC GC						Þ	None E, HCL . I. Ice	
Project ID:	D: Wrigley to Piper Pipeline		**	/d:#0d	PAA-C. Bryant	Pres Type**								D H B	B. HNO ₃ F. MeOH J. MC H ₂ SO ₄ G. Na ₂ S ₂ O ₃ K. ZnAc D. NaOH H. NaHSO ₄ L. As	J. MCAA C. ZnAc&NaOH
Invoice To:	^r o: Ralph Tijerina, Goodnight Midstream			Quote #:		60								PAH niv if) -
Sampler Name: Hilda Villa		Circle One Event: Daily Semi-Annual Annual I	/ent: Daily Annual N	Weekly Mo	Monthly Quartely	mple	8015M	EX 					Sample	Run 2H 0	Ground Water S Waste Water W	Soil/Sediment/Solid Wipe
ple#	Sample ID	Collect Date	Collect	Matrix de Code ^ Fel	tegrity ((Y/N) rtal # of ntainers	Exa /olatile:			····					ILL) Highest T	SW Surface Water O Oil OW Ocean/Sea Water T Tissue PL Product-Liquid U Unine PS Product-Solid B Blood	sue ne
Sar					, C	#Cont	Lab Only:	-						ол	Sludge	
<u> </u>	SFWW11	1/6/2020	7:40	Soil	-		<u> </u>	<u> </u>								
2	SFWW12	1/6/2020	11:33	Soil	_											
lω	SFWW13	1/6/2020	12:54	Soil	_		×	×								
4	SFWW14	1/7/2020	8:34	Soil	_		×	×								
5	SFWW15	1/7/2020	9:55	Soil			×	×								
6	SFWW16	1/7/2020	11:46	Soil			×	×								
7	SFWW17	1/7/2020	13:37	Soil	_		×	×								
8	SFEW11A	1/6/2020	9:53	Soil			×	×							Ż	
9	SFEW12	1/6/2020	11:36	Soil			×	×	-							
<u> </u>		1/6/2020	14:14	Soil			×	×							-	
	Program / Clean-up Std		ွ		001	l & Certifica	tion	EDDs)s	COC & Labels	abels	Coolers	Temp °C		Lab Use Only	YES NO NIA
Other:		AL NM Other:	န	\ \	1 2 3 4 CLP NELAC DoD-ELAP	AFCEE QAPP Other:		ADaPT SEDD XLS Other:	ERPIMS	Match Inco	Incomplete Unclear 1	ට 2	ω	Nor	Non-Conformances found? Samples intact upon arrival?	
-	M M Series Marie M		Sil ILA	7 8	//\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) 2,44		Received by	7	Affiliation	(5) 	Q O			Received on Wet Ice? Labeled with proper preservatives?	
2	Stymmuz trestos				18/130	4:10		B		Š		318			Custody seals intact? VOCs rec'd w/o headspace?	
2 4											·····	-	=	B P P	Proper containers used? pH verified-acceptable, excl VOCs? Received on time to most HTs?	
3&A La	38.4 ahoratorias: Hobbs 575, 392,7550 Dallas 214,002,0200 London 102, 102, 102, 102, 102, 102, 102, 102,		902-0300	Houston	764 242 420	in Odessa		1800 San	Antonio (740 E00.3	L			<u>,</u> -)))	Annual transmin and annual transmin

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STATE for Certs & Regs

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NPDES LPST DryCln

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GA NC

SC NJ PA OK LA

1 2 3 4 CLP AFCEE QAPP
NELAC DoD-ELAP Other: QA/QC Level & Certification

ADaPT SEDD XLS Other:

ERPIMS

Match incomplete Absent Unclear

EDDs

COC & Labels

Coolers

Temp "C

YES NO

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Ime

Received on Wet Ice? Samples intact upon arrival? Non-Conformances found? Lab Use Only

Tech Affiliation

J

28.6

Reg. Program / Clean-up Std

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SFFS12

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Soil

SFFS13B SFFS14

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Company: laboratories Etech Environmental • ;roool-c

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800

CHAIN OF CUSTODY RECORD

Field billable Hrs: LAB W.O#: Page_

នេះស្នេងឧ Encore Sampler
TerraCore Sampler
Air Canister
Tedlar Bag
Zip Lock Bag
Plastic Clear

VA Vial Amber
VC Vial Clear
VP Vial Pre-preserved
GA Glass Amber
GC Glass Clear
PA Plastic Chamber
PC Plastic Clear Container Type Codes

Time:	Other Chastic Clear Other Size(s): 20z. 40z. 80z. 160z. 32oz. 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other
	** Preservative Type Codes
	H ₂ SO ₄ G. Ne ₂ S ₂ O ₃ K. ZnAckNaOH D. NaOH H. NaHSO ₄ L Asbc Acid&NaOH O.
le in PAH Only if	^ Matrix Type Codes
iamp Ri	GW Ground Water S Soil/Sediment/Solid WW Waste Water W Wipe
old S) (TPI	DW Drinking Water A Air SW Surface Water O Oil
	•

(C 61	AL H	L Igi	e) it	ΓP	н_	R	un PAI Only	i
St Sludge Other	PS Product-Solid	PL Product-Liquid					GW Ground Water	^ Matrix :	
	œ	\subset	-	0	A Air	W Wipe	S Soil/Sedimen	Type Codes	

Hilda Villa Sampler Name:

Semi-Annual

Annual

Circle One Event: Daily Weekly

Monthly

Quartel)

Example

Volatiles by 8260

TPH 8015M

BTEX

CI

Quote #:

PO#:

PAA-C. Bryant

Pres Type*

pm@etechenv.com

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GC

ANALYSES REQUESTED

Sample #

Sample ID

Collect

Collect

Matrix Code ^

Field Filtered

Integrity OK (Y/N)

Total # of containers

Lab Only

Time

Date

SFEW15B

10:30

× \times

×

8:35

Soi

SFEW14

SFEW17 SFEW16

13:39 11:48

> Soil Soil

9:10

Soil Soi

SFFS11

Invoice To:

Ralph Tijerina, Goodnight Midstream

PM/Attn: 다. 안

Email: State: NM

> Zip: Fax: Phone:

88260

(575)396-1429 (575)396-2378

TAT Work Days = D

Need results by:

Std (5-7D) 5Hrs 1D 2D 3D 4D

5D

7D 10D

140

Project ID:

Wrigley to Piper Pipeline

Address:

3100 Plains Hwy.

Lovington Joel Lowry

ZEMAZZO

FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099 B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330 Spice ≪ pH verified-acceptable, excl VOCs Received on time to meet HTs? VOCs rec'd w/o headspace? Custody seals intact? Received within holding time? abeled with proper preservatives?

C.O.C. Serial #

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full. Revision Date: Nov 12, 2009

Add Con

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800

CHAIN OF CUSTODY RECORD

IAR WO#

Page_3_of

VA Vial Amber ES
VC Vial Clear TS
VD Vial Pre-preserved AC

Container Type Codes Encore Sampler
TerraCore Sampler
Air Canister

				- יכים בוומבים דוו		7	Yelastic Amber PC Plastic Clear
Phor	- 1	TAT Work Dave =	- 1			P P	astic Clear
Fax:	(575)396-1429	Std (5-7D)	1D 2	5n 70	140 0#	Siz	Size(s): 20z, 40z, 80z, 160z, 320z , 1Gal
State: NM Zip:	88260		ANA	ES REQUEST			** Preservative Type Codes
	றetechenv.com	GC	GC			Ā.	None E. HCL I. Ice
PO#	PAA-C. Bryant	_) <u>0</u>	B. HNO ₃ F. MeOH J. MCAA H ₂ SO ₄ G. Na ₂ S ₂ O ₃ K. Znac&NaOH D. NaOH H. NaHSO ₄ L Asbc Acid&NaOH
Quot	e#:	260				PAH nly if	. A Matrix Type Co.
ivent: Daily Wee Annual N/A	Monthly	8015M				Run PHC	Ground Water S Waste Water W
_	eld ered grity (Y/N)	TPH:				L) ighest Ti	्ष ⊂ ⊣ ० २
	Fill Inte OK Tota	220703081600				on H	PS Product-Solid B Blood SL Sludge Other
		***********					REMARKS
13:41 Sc	<u>-</u>	×	X				
		6					
		(a) (b)					
					-		
Or Cents & Reg C SC NJ PA OK	A 1	inification E QAPP	EDDs		Coolers Te		Lab Use Only YES
	NELAC DoD-ELAF	Time	eved	t Unclear			Samples intact upon arrival?
Stah	1/8/20	14:35 8	I hours T	mail service	118/2012		Labeled with proper preservatives?
moil service	1/8	T-1:0	100 P			2	Custody seals intact? VOCs rec'd w/o headspace?
					400	PH Re	pH verified-acceptable, excl VOCs? Received on time to meet HTs?
L-902-0300 Hor							1
Circle One E Semi-Annual Collect Date STATE AL NM Othe	State: NM Zip: Fax: State: NM Zip:	State: NM Zip: 88260 Email: pm@etechenv.com PO#: PAA-C. Byant Corlect Collect Code * Eight Bear State: NM Zip: 88260 Time Code * Eight Bear State: NM Zip: 88260 Email: pm@etechenv.com PO#: PAA-C. Byant Quote #: Collect Code * Eight Bear State: NA Zip: # Time Code * Eight Bear S	State: NM Zip: 88260 Email: pm@etechenv.com Cont Type: PO#: PAA-C. Bryant Quote #: Quote #: Collect Matrix Held Ecde N/A Code * Filtered by Code * Code * Filtered by Code * Code * Filtered by Code * Code * Code * Filtered by Code * Code * Code * Code * Code * Code * Filtered by Code * Cod			Phone:	LYSES REQUESTED LYSES REQUESTED Hold Sample (CALL) Run PAH on Highest TPH Only if Affiliation Date Time: Time: Hold Sample (CALL) Run PAH on Highest TPH Only if



Work Order #: 648467

XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 01/09/2020 11:56:08 AM

Date, Time (10001104), 01/00/2020 11:00:00 7:11

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used: R8

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		1.2	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	iner/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?		N/A	
#6*Custody Seals Signed and dated?		N/A	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		N/A	
#18 Water VOC samples have zero headsp	pace?	N/A	

* Must be c	ompleted for after-hours de	livery of samples prior to p	placing in the refrigerator
Analyst:		PH Device/Lot#:	
	Checklist completed by:	Brianna Teel	Date: 01/09/2020
	Checklist reviewed by:	Jessica Vramer	Date: 01/09/2020
		Jessica Kramer	



Certificate of Analysis Summary 648785

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wrigley Piper Pipeline

Project Id: Contact:

Joel Lowry

Project Location:

Date Received in Lab: Mon Jan-13-20 11:05 am

Report Date: 22-JAN-20

Project Manager: Jessica Kramer

	7 7 7 7	640705	002	640705	202	C40705 (20.4	640705	205	C40705 /	20.6	640705	007
	Lab Id:	648785-0		648785-0		648785-0		648785-		648785-0		648785-	
Analysis Requested	Field Id:	SFEW	19	SFEW2	0B	SFEW2	1A	SFEW2	22	SFWW1	8C	SFWW	19
Timutysis Requested	Depth:												
	Matrix:	SOIL		SOIL	,	SOIL		SOIL	,	SOIL	,	SOIL	
	Sampled:	Jan-08-20	00:00	Jan-08-20	00:00	Jan-09-20	00:00	Jan-09-20	00:00	Jan-08-20	00:00	Jan-08-20	00:00
BTEX by EPA 8021B	Extracted:	Jan-21-20	13:30	Jan-21-20	13:30	Jan-21-20	13:30	Jan-21-20	13:30	Jan-21-20	13:30	Jan-21-20	13:30
	Analyzed:	Jan-21-20	17:56	Jan-21-20	18:16	Jan-21-20	18:36	Jan-21-20	18:56	Jan-21-20	19:16	Jan-21-20	19:36
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199
Toluene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199
Ethylbenzene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199
m,p-Xylenes		< 0.00404	0.00404	< 0.00401	0.00401	< 0.00403	0.00403	< 0.00402	0.00402	< 0.00398	0.00398	< 0.00398	0.00398
o-Xylene		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199
Total Xylenes		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199
Total BTEX		< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00199	0.00199
Chloride by EPA 300	Extracted:	Jan-13-20	15:40	Jan-13-20	15:40	Jan-13-20	15:40	Jan-13-20	15:40	Jan-13-20	15:40	Jan-13-20	15:40
	Analyzed:	Jan-13-20	19:32	Jan-13-20	19:52	Jan-13-20 2	20:45	Jan-13-20	20:51	Jan-13-20	20:58	Jan-13-20	21:05
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		195	5.00	< 5.03	5.03	<4.98	4.98	68.4	4.95	<4.99	4.99	< 5.00	5.00
TPH By SW8015 Mod	Extracted:	Jan-16-20	16:00	Jan-16-20	16:00	Jan-16-20	16:00	Jan-16-20	16:00	Jan-16-20	16:00	Jan-16-20	16:00
	Analyzed:	Jan-16-20	21:17	Jan-16-20	22:20	Jan-16-20 2	22:41	Jan-16-20	23:02	Jan-16-20	23:23	Jan-16-20	23:45
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<49.8	49.8	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.8	49.8
Diesel Range Organics (DRO)		< 50.0	50.0	<49.8	49.8	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<49.8	49.8	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.8	49.8
Total TPH		< 50.0	50.0	<49.8	49.8	<50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.8	49.8

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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fession Weamer



Certificate of Analysis Summary 648785

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wrigley Piper Pipeline

Page 624 of

Project Id: Contact:

Joel Lowry

Project Location:

Date Received in Lab: Mon Jan-13-20 11:05 am

Report Date: 22-JAN-20

Project Manager: Jessica Kramer

										1	
	Lab Id:	648785-0	008	648785-0	009	648785-0	010	648785-	011		
Analysis Requested	Field Id:	SFFS1	8	SFFS1	9	SFFS2	0	SFFS2	1		
Anaiysis Kequesieu	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL	,		
	Sampled:	Jan-08-20 (00:00	Jan-08-20 (00:00	Jan-09-20	00:00	Jan-09-20	00:00		
BTEX by EPA 8021B	Extracted:	Jan-21-20 1	13:30	Jan-21-20 1	13:30	Jan-21-20	13:30	Jan-21-20	13:30		
	Analyzed:	Jan-21-20	19:56	Jan-21-20 2	20:17	Jan-21-20 2	20:37	Jan-21-20	20:57		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene	·	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00201	0.00201		
Toluene		< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00201	0.00201		
Ethylbenzene		< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00201	0.00201		
m,p-Xylenes		< 0.00397	0.00397	< 0.00396	0.00396	< 0.00400	0.00400	< 0.00402	0.00402		
o-Xylene		< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00201	0.00201		
Total Xylenes		< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00201	0.00201		
Total BTEX		< 0.00198	0.00198	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00201	0.00201		
Chloride by EPA 300	Extracted:	Jan-13-20	15:40	Jan-13-20 1	5:40	Jan-13-20	15:40	Jan-13-20	15:40		
	Analyzed:	Jan-13-20 2	21:25	Jan-13-20 2	21:31	Jan-13-20 2	21:51	Jan-13-20	21:58		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		4560	25.2	4160	25.1	4680	25.1	4240	25.0		
TPH By SW8015 Mod	Extracted:	Jan-16-20	16:00	Jan-16-20 1	6:00	Jan-16-20	16:00	Jan-16-20	16:00		
	Analyzed:	Jan-17-20 (00:06	Jan-17-20 (00:27	Jan-17-20 (00:48	Jan-17-20 01:09			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<49.9	49.9	<49.8	49.8	< 50.0	50.0		
Diesel Range Organics (DRO)		< 50.0	50.0	<49.9	49.9	<49.8	49.8	< 50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<49.9	49.9	<49.8	49.8	< 50.0	50.0		
Total TPH		< 50.0	50.0	<49.9	49.9	<49.8	49.8	< 50.0	50.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 648785

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry
Wrigley Piper Pipeline

22-JAN-20

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)





22-JAN-20

Project Manager: **Joel Lowry Etech Environmental & Safety Solution, Inc**P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): 648785

Wrigley Piper Pipeline

Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 648785. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 648785 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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Sample Cross Reference 648785



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SFEW19	S	01-08-20 00:00		648785-002
SFEW20B	S	01-08-20 00:00		648785-003
SFEW21A	S	01-09-20 00:00		648785-004
SFEW22	S	01-09-20 00:00		648785-005
SFWW18C	S	01-08-20 00:00		648785-006
SFWW19	S	01-08-20 00:00		648785-007
SFFS18	S	01-08-20 00:00		648785-008
SFFS19	S	01-08-20 00:00		648785-009
SFFS20	S	01-09-20 00:00		648785-010
SFFS21	S	01-09-20 00:00		648785-011
SFEW18	S	01-08-20 00:00		Not Analyzed

Received by OCD: 4/6/2020 10:25:59 AM XENCO LABORATORIES

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wrigley Piper Pipeline

Project ID: Work Order Number(s): 648785

Report Date: 22-JAN-20 Date Received: 01/13/2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3113081 Inorganic Anions by EPA 300

Lab Sample ID 648785-007 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 648785-002, -003, -004, -005, -006, -007, -008, -009, -010, -011.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3114013 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Soil

Sample Id: SFEW19

Matrix:

Date Received:01.13.20 11.05

Lab Sample Id: 648785-002

Date Collected: 01.08.20 00.00

Prep Method: E300P

Tech: Analyst: CHE

Analytical Method: Chloride by EPA 300

CHE

Date Prep:

01.13.20 15.40

Basis:

% Moisture:

Wet Weight

Seq Number: 3113081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	195	5.00	mg/kg	01.13.20 19.32		1

Analytical Method: TPH By SW8015 Mod

DVM

Tech:

ARM Analyst:

Seq Number: 3113634

Date Prep:

01.16.20 16.00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.16.20 21.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.16.20 21.17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.16.20 21.17	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	01.16.20 21.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	01.16.20 21.17		
o-Terphenyl		84-15-1	96	%	70-135	01.16.20 21.17		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFEW19

Matrix:

Soil

Date Received:01.13.20 11.05

Lab Sample Id: 648785-002

Seq Number: 3114013

Date Collected: 01.08.20 00.00

Prep Method: SW5030B

% Moisture:

Analytical Method: BTEX by EPA 8021B

Tech:

KTL

Analyst:

KTL

Date Prep:

01.21.20 13.30

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202	mg/kg	01.21.20 17.56	U	1
Toluene	108-88-3	< 0.00202	0.00202	mg/kg	01.21.20 17.56	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	mg/kg	01.21.20 17.56	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404	mg/kg	01.21.20 17.56	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	mg/kg	01.21.20 17.56	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202	mg/kg	01.21.20 17.56	U	1
Total BTEX		< 0.00202	0.00202	mg/kg	01.21.20 17.56	U	1

		%				
Surrogate	Cas Number	Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	01.21.20 17.56	
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.21.20 17.56	





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id: SFEW20B Matrix: Soil Date Received:01.13.20 11.05

Lab Sample Id: 648785-003

Date Collected: 01.08.20 00.00

Prep Method: E300P

Analysis Date

01.13.20 19.52

CHE

% Moisture:

Tech: Analyst:

Parameter

Chloride

CHE

Analytical Method: Chloride by EPA 300

RL

5.03

Wet Weight

Seq Number: 3113081

Date Prep: 01.13.20 15.40 Basis:

Units

mg/kg

Dil

1

Flag

U

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

Date Prep:

Result

< 5.03

Cas Number

16887-00-6

01.16.20 16.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	01.16.20 22.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	01.16.20 22.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	01.16.20 22.20	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	01.16.20 22.20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	90	%	70-135	01.16.20 22.20		
o-Terphenyl		84-15-1	110	%	70-135	01.16.20 22.20		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFEW20B

Analytical Method: BTEX by EPA 8021B

Matrix:

Soil

Date Received:01.13.20 11.05

Lab Sample Id: 648785-003

Date Collected: 01.08.20 00.00

Prep Method: SW5030B

% Moisture:

Tech: Analyst: KTL

KTL

Date Prep:

01.21.20 13.30

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	01.21.20 18.16	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	01.21.20 18.16	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	01.21.20 18.16	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	01.21.20 18.16	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	01.21.20 18.16	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	01.21.20 18.16	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	01.21.20 18.16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	85	%	70-130	01.21.20 18.16		
1,4-Difluorobenzene		540-36-3	115	%	70-130	01.21.20 18.16		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Soil

Sample Id: SFEW21A Matrix:

Date Received:01.13.20 11.05

Lab Sample Id: 648785-004

Date Collected: 01.09.20 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

Analyst:

% Moisture:

CHE

Date Prep:

01.13.20 15.40

Basis:

Wet Weight

Seq Number: 3113081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	01.13.20 20.45	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst:

ARM

01.16.20 16.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.16.20 22.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.16.20 22.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.16.20 22.41	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	01.16.20 22.41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	01.16.20 22.41		
o-Terphenyl		84-15-1	111	%	70-135	01.16.20 22.41		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFEW21A

Matrix:

Soil

Date Received:01.13.20 11.05

Lab Sample Id: 648785-004

Date Collected: 01.09.20 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Wet Weight

KTL Analyst:

Date Prep:

01.21.20 13.30

Basis:

Benzene 71-43-2 <0.00202	Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Ethylbenzene 100-41-4 <0.00202 0.00202 mg/kg 01.21.20 18.36 U 1 m,p-Xylenes 179601-23-1 <0.00403 0.00403 mg/kg 01.21.20 18.36 U 1 o-Xylene 95-47-6 <0.00202 0.00202 mg/kg 01.21.20 18.36 U 1 Total Xylenes 1330-20-7 <0.00202 0.00202 mg/kg 01.21.20 18.36 U 1 Total BTEX 0.00202 0.00202 mg/kg 01.21.20	Benzene	71-43-2	< 0.00202	0.00202		mg/kg	01.21.20 18.36	U	1
m,p-Xylenes 179601-23-1 <0.00403 0.00403 mg/kg 01.21.20 18.36 U 1 o-Xylene 95-47-6 <0.00202 0.00202 mg/kg 01.21.20 18.36 U 1 Total Xylenes 1330-20-7 <0.00202 0.00202 mg/kg 01.21.20 18.36 U 1 Total BTEX <0.00202 0.00202 mg/kg 01.21.20 18.36 U 1 Surrogate Cas Number Recovery Units Limits Analysis Date Flag	Toluene	108-88-3	< 0.00202	0.00202		mg/kg	01.21.20 18.36	U	1
o-Xylene 95-47-6 <0.00202 0.00202 mg/kg 01.21.20 18.36 U 1 Total Xylenes 1330-20-7 <0.00202 0.00202 mg/kg 01.21.20 18.36 U 1 Total BTEX <0.00202 0.00202 mg/kg 01.21.20 18.36 U 1 Surrogate Cas Number Recovery Units Limits Analysis Date Flag	Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	01.21.20 18.36	U	1
Total Xylenes 1330-20-7 <0.00202 0.00202 mg/kg 01.21.20 18.36 U 1 Total BTEX <0.00202 0.00202 mg/kg 01.21.20 18.36 U 1 Surrogate Cas Number Recovery Units Limits Analysis Date Flag	m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	01.21.20 18.36	U	1
Total BTEX	o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	01.21.20 18.36	U	1
Surrogate Cas Number Recovery Units Limits Analysis Date Flag	Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	01.21.20 18.36	U	1
Surrogate Cas Number Recovery Units Limits Analysis Date Flag	Total BTEX		< 0.00202	0.00202		mg/kg	01.21.20 18.36	U	1
	Surrogate		Cas Number	, -	Units	Limits	Analysis Date	Flag	
	1,4-Difluorobenzene		540-36-3		%	70-130	01.21.20 18.36		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id: SFEW22 Matrix:

Soil

Date Received:01.13.20 11.05

Lab Sample Id: 648785-005

Date Collected: 01.09.20 00.00

Prep Method: E300P

Tech:

CHE

Analytical Method: Chloride by EPA 300

% Moisture:

Analyst:

CHE

Date Prep:

Date Prep:

01.13.20 15.40

01.16.20 16.00

Basis:

Wet Weight

Seq Number: 3113081

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 01.13.20 20.51 68.4 4.95 mg/kg 1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Basis: Wet Weight

ARM Analyst: Seq Number: 3113634

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	01.16.20 23.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.16.20 23.02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.16.20 23.02	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	01.16.20 23.02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	107	%	70-135	01.16.20 23.02		
o-Terphenyl		84-15-1	104	%	70-135	01.16.20 23.02		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id: SFI

SFEW22

Matrix:

Soil

Date Received:01.13.20 11.05

Lab Sample Id: 648785-005

Date Collected: 01.09.20 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

% Moisture:

Tech: Analyst: KTL

KTL

Date Prep:

01.21.20 13.30

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	01.21.20 18.56	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	01.21.20 18.56	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	01.21.20 18.56	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	01.21.20 18.56	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	01.21.20 18.56	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	01.21.20 18.56	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	01.21.20 18.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	114	%	70-130	01.21.20 18.56		
4-Bromofluorobenzene		460-00-4	83	%	70-130	01.21.20 18.56		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

SFWW18C Sample Id:

Matrix: Soil Date Received:01.13.20 11.05

Lab Sample Id: 648785-006

Date Collected: 01.08.20 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

01.13.20 15.40

Basis:

Wet Weight

Seq Number: 3113081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	01.13.20 20.58	U	1

Date Prep:

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

01.16.20 16.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	01.16.20 23.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	01.16.20 23.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	01.16.20 23.23	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	01.16.20 23.23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	01.16.20 23.23		
o-Terphenyl		84-15-1	104	%	70-135	01.16.20 23.23		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id: SFV

SFWW18C

Matrix:

Date Prep:

Soil

01.21.20 13.30

Date Received:01.13.20 11.05

Lab Sample Id: 648785-006

Date Collected: 01.08.20 00.00

Analytical Method: BTEX by EPA 8021B Tech: KTL

KTL KTL

Prep Method: SW5030B

% Moisture:

% Moi Basis:

Wet Weight

Analyst: KTL Seq Number: 3114013

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	01.21.20 19.16	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	01.21.20 19.16	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	01.21.20 19.16	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	01.21.20 19.16	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	01.21.20 19.16	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	01.21.20 19.16	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	01.21.20 19.16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	115	%	70-130	01.21.20 19.16		
4-Bromofluorobenzene		460-00-4	82	%	70-130	01.21.20 19.16		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id: SFWW19 Matrix: Soil Date Received:01.13.20 11.05

Lab Sample Id: 648785-007

Date Collected: 01.08.20 00.00

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: Analyst: CHE CHE

Date Prep:

01.13.20 15.40

Basis:

Wet Weight

Seq Number: 3113081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 5.00	5.00	mg/kg	01.13.20 21.05	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

01.16.20 16.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	01.16.20 23.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	01.16.20 23.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	01.16.20 23.45	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	01.16.20 23.45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	01.16.20 23.45		
o-Terphenyl		84-15-1	108	%	70-135	01.16.20 23.45		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Soil

Sample Id:

SFWW19

Matrix:

Date Received:01.13.20 11.05

Lab Sample Id: 648785-007

Date Collected: 01.08.20 00.00

Prep Method: SW5030B

Analytical Method: BTEX by EPA 8021B

% Moisture:

Tech:

KTL

Analyst:

KTL

Date Prep:

01.21.20 13.30

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	01.21.20 19.36	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	01.21.20 19.36	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	01.21.20 19.36	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	01.21.20 19.36	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	01.21.20 19.36	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	01.21.20 19.36	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	01.21.20 19.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	85	%	70-130	01.21.20 19.36		
1,4-Difluorobenzene		540-36-3	116	%	70-130	01.21.20 19.36		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Soil

01.13.20 15.40

Sample Id: SFFS18

Matrix:

Date Received:01.13.20 11.05

Lab Sample Id: 648785-008

Date Collected: 01.08.20 00.00

Prep Method: E300P

Tech:

Analyst:

CHE CHE

Analytical Method: Chloride by EPA 300

Date Prep:

% Moisture:

Basis:

Wet Weight

Seq Number: 3113081

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 25.2 01.13.20 21.25 4560 mg/kg 5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

DVM ARM

Tech: Analyst:

01.16.20 16.00 Date Prep:

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.17.20 00.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.17.20 00.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.17.20 00.06	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	01.17.20 00.06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	01.17.20 00.06		
o-Terphenyl		84-15-1	103	%	70-135	01.17.20 00.06		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFFS18

Analytical Method: BTEX by EPA 8021B

Matrix:

Soil

Date Received:01.13.20 11.05

Lab Sample Id: 648785-008

Date Collected: 01.08.20 00.00

% Moisture:

Prep Method: SW5030B

Tech: Analyst: KTL

KTL

Date Prep:

01.21.20 13.30

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	01.21.20 19.56	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	01.21.20 19.56	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	01.21.20 19.56	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	01.21.20 19.56	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	01.21.20 19.56	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	01.21.20 19.56	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	01.21.20 19.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	113	%	70-130	01.21.20 19.56		
4-Bromofluorobenzene		460-00-4	80	%	70-130	01.21.20 19.56		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id: SFFS19

Analytical Method: Chloride by EPA 300

Matrix:

Soil

Date Received:01.13.20 11.05

Lab Sample Id: 648785-009

Date Collected: 01.08.20 00.00

Prep Method: E300P % Moisture:

Tech: Analyst: CHE

CHE

Date Prep:

01.13.20 15.40

Basis:

Wet Weight

Seq Number: 3113081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4160	25.1	mg/kg	01.13.20 21.31		5

Analytical Method: TPH By SW8015 Mod

DVM

Tech:

Analyst:

ARM

Date Prep:

01.16.20 16.00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	01.17.20 00.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	01.17.20 00.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	01.17.20 00.27	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	01.17.20 00.27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	107	%	70-135	01.17.20 00.27		
o-Terphenyl		84-15-1	105	%	70-135	01.17.20 00.27		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Soil

Sample Id: SFF

SFFS19

Matrix:

Date Received:01.13.20 11.05

Lab Sample Id: 648785-009

Date Collected: 01.08.20 00.00

Date Collected, 01.08.20 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: % Moisture:

Prep Method: SW5030B

Tech: Analyst: KTL KTL

Date Prep:

01.21.20 13.30

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	01.21.20 20.17	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	01.21.20 20.17	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	01.21.20 20.17	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	01.21.20 20.17	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	01.21.20 20.17	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	01.21.20 20.17	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	01.21.20 20.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	82	%	70-130	01.21.20 20.17		
1,4-Difluorobenzene		540-36-3	113	%	70-130	01.21.20 20.17		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id: SFFS20

Matrix:

Soil

Date Received:01.13.20 11.05

Lab Sample Id: 648785-010

Date Collected: 01.09.20 00.00

Prep Method: E300P

% Moisture:

Tech: Analyst: CHE

Analytical Method: Chloride by EPA 300

CHE

Date Prep:

01.13.20 15.40

Basis:

Wet Weight

Seq Number: 3113081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4680	25.1	mg/kg	01.13.20 21.51		

Analytical Method: TPH By SW8015 Mod

DVM

Tech:

ARM Analyst:

Seq Number: 3113634

Date Prep:

01.16.20 16.00

Prep Method: SW8015P

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	01.17.20 00.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	01.17.20 00.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	01.17.20 00.48	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	01.17.20 00.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	01.17.20 00.48		
o-Terphenyl		84-15-1	106	%	70-135	01.17.20 00.48		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFFS20

Analytical Method: BTEX by EPA 8021B

Matrix:

Soil

Date Received:01.13.20 11.05

Lab Sample Id: 648785-010

Date Collected: 01.09.20 00.00

% Moisture:

Prep Method: SW5030B

Tech: Analyst: KTL

KTL

Date Prep:

01.21.20 13.30

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	01.21.20 20.37	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	01.21.20 20.37	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	01.21.20 20.37	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	01.21.20 20.37	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	01.21.20 20.37	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	01.21.20 20.37	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	01.21.20 20.37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	117	%	70-130	01.21.20 20.37		
4-Bromofluorobenzene		460-00-4	86	%	70-130	01.21.20 20.37		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id: SFFS21

Matrix:

Soil

Date Received:01.13.20 11.05

Lab Sample Id: 648785-011

Date Collected: 01.09.20 00.00

Prep Method: E300P % Moisture:

Tech: Analyst:

Analytical Method: Chloride by EPA 300

CHE

CHE

Date Prep:

01.13.20 15.40

Basis:

Wet Weight

Seq Number: 3113081

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4240	25.0	mg/kg	01.13.20 21.58		

Analytical Method: TPH By SW8015 Mod

DVM

Seq Number: 3113634

ARM Analyst:

Tech:

Date Prep:

01.16.20 16.00

Prep Method: SW8015P

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.17.20 01.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.17.20 01.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.17.20 01.09	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	01.17.20 01.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	01.17.20 01.09		
o-Terphenyl		84-15-1	108	%	70-135	01.17.20 01.09		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley Piper Pipeline

Sample Id:

SFFS21

Matrix:

Soil

Date Received:01.13.20 11.05

Lab Sample Id: 648785-011

Date Collected: 01.09.20 00.00

Analytical Method: BTEX by EPA 8021B

% Moisture:

Prep Method: SW5030B

Tech: Analyst: KTL

KTL

Date Prep:

01.21.20 13.30

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	01.21.20 20.57	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	01.21.20 20.57	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	01.21.20 20.57	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	01.21.20 20.57	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	01.21.20 20.57	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	01.21.20 20.57	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	01.21.20 20.57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	79	%	70-130	01.21.20 20.57		
1,4-Difluorobenzene		540-36-3	113	%	70-130	01.21.20 20.57		



Flagging Criteria



- Page 649 of 744
- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 648785

Etech Environmental & Safety Solution, Inc

Wrigley Piper Pipeline

Analytical Method: Chloride by EPA 300

Seq Number:

3113081

7694225-1-BLK

Matrix: Solid

7694225-1-BKS

259

Prep Method:

E300P

Date Prep: 01.13.20

LCSD Sample Id: 7694225-1-BSD

Parameter

MR Spike LCS Sample Id: LCS LCS

Limits %RPD RPD Limit Units

Analysis Date

Chloride

MB Sample Id:

Result Amount < 0.858 250

Result %Rec 259 104 LCSD LCSD %Rec Result

104

104

90-110

0 20 mg/kg 01.13.20 19:18

Flag

Analytical Method: Chloride by EPA 300

3113081

Matrix: Soil

Prep Method: Date Prep:

E300P

Parent Sample Id:

648785-002

MS Sample Id: 648785-002 S

2

01.13.20

Parameter

Seq Number:

Limits

MSD Sample Id: 648785-002 SD %RPD RPD Limit Units

Analysis

Chloride

Parent Result

195

Parent

Result

< 0.858

Spike Amount 250

MS MS Result %Rec 463 107

MSD MSD Result %Rec 455

90-110

20 mg/kg

Flag Date

01.13.20 19:38

Analytical Method: Chloride by EPA 300

3113081

Prep Method:

E300P

Seq Number: Parent Sample Id:

648785-007

Matrix: Soil

MSD

Date Prep:

20

01.13.20

Parameter

Seq Number:

MB Sample Id:

MS Sample Id: 648785-007 S MSD Sample Id: 648785-007 SD

Analysis

MS Spike Result Amount

250

MS %Rec 288 115

MSD Result %Rec 284 114

90-110

Limits

%RPD RPD Limit Units

mg/kg

Flag Date

01.13.20 21:11

Chloride

Analytical Method: TPH By SW8015 Mod

3113634

7694553-1-BLK

Prep Method:

SW8015P

Matrix: Solid

Date Prep:

01.16.20

Parameter

MB Result Amount LCS Sample Id: LCS LCS

7694553-1-BKS

Limits LCSD LCSD

110

LCSD Sample Id:

%RPD RPD Limit Units

7694553-1-BSD

Flag

Gasoline Range Hydrocarbons (GRO)

<15.0 1000 1000 <15.0

Spike

Result %Rec 1140 114

%Rec Result 1100

70-135

4 20 Date

X

Diesel Range Organics (DRO)

MB

118

MB

1030 103 1010

70-135 101

Flag

20

mg/kg mg/kg

Units

%

%

01.16.20 20:34 01.16.20 20:34

Surrogate

%Rec Flag 112

LCS %Rec Flag

LCS

LCSD LCSD

%Rec

121

121

2

Limits

70-135

70-135

Analysis Date

> 01.16.20 20:34 01.16.20 20:34

> > Analysis

Date

Analysis

1-Chlorooctane

o-Terphenyl

Analytical Method: TPH By SW8015 Mod 3113634

126

121

Matrix: Solid

MB Sample Id: 7694553-1-BLK

Prep Method:

Date Prep:

SW8015P 01.16.20

Flag

Parameter

Seg Number:

MB Result

< 50.0

Units

01.16.20 20:13 mg/kg

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery

Log Difference

Motor Oil Range Hydrocarbons (MRO)

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |

[D] = 100 * (C) / [B]Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result = MS/LCS Result = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Flag

Flag



QC Summary 648785

Etech Environmental & Safety Solution, Inc

Wrigley Piper Pipeline

Analytical Method: TPH By SW8015 Mod

Seq Number: 3113634

Parent Sample Id: 648785-002

Prep Method:

SW8015P Date Prep: 01.16.20

MSD Sample Id: 648785-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	15.5	997	876	86	761	75	70-135	14	20	mg/kg	01.16.20 21:38	
Diesel Range Organics (DRO)	18.1	997	888	87	761	74	70-135	15	20	mg/kg	01.16.20 21:38	

Matrix: Soil

MS Sample Id: 648785-002 S

Surrogate	MS MS %Rec Flag	MSD MSD %Rec Flag	Limits	Units	Analysis Date
1-Chlorooctane	93	71	70-135	%	01.16.20 21:38
o-Terphenyl	111	92	70-135	%	01.16.20 21:38

Analytical Method: BTEX by EPA 8021B

Seq Number: 3114013

MB Sample Id:

7694841-1-BLK

Matrix: Solid

LCS Sample Id: 7694841-1-BKS

Prep Method: SW5030B

Date Prep: 01.21.20

LCSD Sample Id: 7694841-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date
Benzene	< 0.000385	0.100	0.120	120	0.113	113	70-130	6	35	mg/kg	01.21.20 15:36
Toluene	< 0.000456	0.100	0.106	106	0.102	102	70-130	4	35	mg/kg	01.21.20 15:36
Ethylbenzene	< 0.000565	0.100	0.0987	99	0.0960	96	70-130	3	35	mg/kg	01.21.20 15:36
m,p-Xylenes	< 0.00101	0.200	0.194	97	0.189	95	70-130	3	35	mg/kg	01.21.20 15:36
o-Xylene	< 0.000344	0.100	0.0959	96	0.0938	94	70-130	2	35	mg/kg	01.21.20 15:36

%Rec	Flag	%Rec	Flag	%Rec	Flag	Limits	Units	Analysis Date
107		107		105		70-130	%	01.21.20 15:36
81		88		89		70-130	%	01.21.20 15:36
		%Rec Flag	%Rec Flag %Rec 107 107	%Rec Flag %Rec Flag 107 107	%Rec Flag %Rec Flag %Rec 107 107 105	%Rec Flag %Rec Flag %Rec Flag 107 107 105	%Rec Flag %Rec Flag 107 107 105 70-130	%Rec Flag %Rec Flag 107 107 105 70-130 %

Analytical Method: BTEX by EPA 8021B

Seq Number: 3114013

Parent Sample Id:

648785-002

Matrix: Soil

MS Sample Id: 648785-002 S Prep Method: Date Prep: SW5030B

01.21.20 MSD Sample Id: 648785-002 SD

MS %RPD RPD Limit Units **Parent** Spike MS MSD MSD Limits Analysis **Parameter** Result Amount Result %Rec %Rec Date Result 01.21.20 16:16 0.000606 0.10098 0.0965 Benzene 0.101 96 70-130 4 35 mg/kg Toluene < 0.000459 0.101 0.0906 90 0.0862 86 70-130 5 35 mg/kg 01.21.20 16:16 < 0.000569 0.101 0.0795 70-130 35 01.21.20 16:16 Ethylbenzene 0.0846 84 80 6 mg/kg 0.202 35 01.21.20 16:16 < 0.00102 0.166 82 0.156 70-130 m,p-Xylenes 78 6 mg/kg 0.101 70-130 01.21.20 16:16 0.0824 35 o-Xylene 0.000566 81 0.0776 77 6 mg/kg

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		112		70-130	%	01.21.20 16:16
4-Bromofluorobenzene	94		94		70-130	%	01.21.20 16:16

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result

= MS/LCS Result E = MSD/LCSD Result MS = Matrix SpikeB = Spike AddedD = MSD/LCSD % Rec ω N

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Other:

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NPDES LPST DryCin

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GA NC

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1 2 3 4 CLP AFCEE GAPP QA/QC Level & Certification

XLS Other: ADaPT SEDD

ERPIMS

Match incomplete Absent Unclear

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Non-Conformances found?

Lab Use Only

YES NO N/

samples intact upon arrival?

ceived on Wet Ice?

COC & Labels

Coolers N

Temp °C

MIN EXALE

SPORT

> P ime

₹eceived within holding time?

istody seals intact?

abeled with proper preservatives?

pH verified-acceptable, excl VOCs VOCs rec'd w/o headspace? 7oper containers used?

Affiliation

Received by

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EDDs × ×

Date

100 N.O.O. 2 Relinquished by

Reg. Program / Clean-up Std

SFFS20

1/9/2020 1/8/2020 1/8/2020

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1/8/2020 1/9/2020 1/9/2020 1/9/2020 1/8/2020 1/8/2020

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SFEW22

SFEW21A SFEW20B

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SFEW19 SFEW18 Hilda Villa, Matthew Grieco

Circle One Event: Daily Semi-Annual Annual N

₹ Weekly

Monthly

Quartely

Example

Volatiles by 8260

TPH 8015M

BTEX

CI

(CALL__)

Sample #

Sample ID

Collect

Collect

Code A Matrix

Field

OK (YA)

Lab Only:

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× × Sampler Name:

Invoice To:

Ralph Tijerina, Goodnight Midstream

Quote #:

PO#

PAA-C. Bryant

pm@etechenv.com

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GC

GC

Project ID:

Joel Lowry Lovington

Email: State:

> Zip: Fax:

> > (575)396-1429

Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D

Other

Size(s): 20z, 40z, 80z, 160z, 32oz , 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other

SINVERS

Encore Sampler
TerraCore Sampler
Air Canister
Tedfar Bag
Zip Lock Bag
Plastic Clear

Time:

ANALYSES REQUESTED

Need results

Wrigley to Piper Pipeline

3100 Plains Hwy. Etech Environmental Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79165 (432)563-1800 CHAIN OF CUSTODY RECORD Phone: (575)396-2378 TAT Work Days ≈ D Field billable Hrs : LAB W.O#: Page__ VA Vial Amber
VC Vial Clear
VP Vial Pre-preserved
GA Glass Amber
GC Glass Clear
PA Plastic Amber
PC Plastic Clear
Other * Container Type Codes

Execution of this document by client creates a legal and binding agrooment between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and Revision Date: Nov 12, 2009 FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099 B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330 ceived on time to meet HTs?

JW Ground Weler
WW Waste Water
DW Drinking WSW SurfacPr A. None E. HCL
B. HNO, F. MeOH
H2SO, G. Na,S,O, F.
D. NaOH H. NaHSO,
O. ^ Matrix Type Codes REMARKS J. Ico
J. MCAA
C. ZIAGRNAOH
O. L Asbc Acid&NaOH S Soll/Sediment/Solid W Wipe A Air O Oil Ir T Tissue U Urine B Blood

** Preservative Type Codes Final 1.000

Page 30 of 32

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FIS Service Centers: Atlanta 770-449,8800 1-1-1-1-20 Circumstantia Control San Antonio 210-509-3334 Phoenix 6	TEC Law (audient Hopps 5/5-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 423 Feb hopps	torion Ualda ETF and I			-					Kelinquished by			DW NPDES (PST page)	Reg. Program / Clean-up Std					The state of the s		THE RESERVE THE PROPERTY OF TH												SFFS21			in the second se	Sample ID		Filida Villa, Mallhew Grieco	3010	Kaipe iljerillä, Goodnight Midsfream		varigley to Piper Pipelino		Joel Lowry		Lovington	3100 Plains Hwy.	1	Etech Environmental	entral Actector Stadiochesisty	- Chorolandes Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200	
	Dallas 2										K	-		STAT					1		1				1		+					170720	1/9/2020			anec	Collect		Semi-A	Circle	Inam	NAME OF THE PERSONS ASSESSED.		the Strong Stron								nbriar Dr. Sta	
	14-902-0300					11/2/11		14/19		Affiliation	Office	NG SC NJ PA OK		STATE for Corts & Rans					-								_					20	on.			i ime	-		Somi-Annual Annual	Circle One Event: Daily				-	Email:		State: 1					Ifford, TX 77477	
	Housto					SCOLOPS COLOPS		2	5			5	. Section	Rans	-			-					T								•					Code				ailv Weekly	10010	Oliote #		#.	@mq		NM Zin:	Fax:	i iidid.	Dhon		(281)240-42	
	204 747 476							110000	1 / /	Date	NELAC DoD-ELAP Other	1 2 3 4 CL	שיששים בשע																	distribution distr					Ľ	FI FIII Inte XX	eld ered grity 'Y N		y womey Guartely	Mounthly			PAA-C. Bryant		pm@etechenv.com	88260		(575)396-1429	(575)396-2378	1		200 Odessa: 1260	T CUSTODY
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3			1					F4 -		N.O			9								Samo	r-iga 21	Trade Market			1	1000		· · · · · · · · · · · · · · · · · · ·			×		Lab Only:			8.54	- 8	015	М		-	-	GC			2td (5-7)	? ;	TAT Work Days =			Odessa, TX	RICORU
				•					Received by	Ara Outt	SUC	CERP	EDDs			-				1		- Line		distribution of the second	•••••		- ·	-		-		× ×	-		Constitute organical constitution of the const		£	STE CI			-	- -	•	GC GC	-	>	Std (5-7D) 5Hrs 1D 2D 3D 4D	! !	o			79765 (432)5	Ū
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			-	الريانطد	世で	101101		-	Date	7 2	`									2200 September 1		The state of the s		1							1,3						·									REQUESTED	10D 14D			le Hrs :	W.O#:	ragez_	
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					Ĵ	\perp	70. 20.		Time			with C																								YLL.	Hold) lest T		9a	n PA								The state of the s			ころへ		
		Received on time to meet HTs?	pH verified-accentable a	Proper containers	VOCs rec'd w/o heartenace?	Custody seals interior	Received within holding times	Labeled with proper preservations	Described on Mark	Samules interd	Non-Conformances found?	Lab Use Only									3													Dillian				200000	4	> >		D. NaOH	B. HNO,	A. None	-	** 0,	Size(s): 20z	Omer _	PC Plastic	GC Glass	VP Vial F		*
	W III SOOT IN SE	to meet HTe2	table and Voc	used?	andspace?	and a more	Comit puible.	AF Preservative	JEANING LICE		us found?	Only																	***************************************				REM.	Jł.	je Jeroolid	fuct-Liquid	SW Surface Water COW Ocean/See Water 1	to Water	ind Water	Matrix	dimension	H. NaHSO	H.SO. G. Na.S.O. L	E. HCL	PA ISSS	Dearwati	1, 40z, 80z, 16, ni 250 mi 50r		Clear	Clear	P Vial Clear P Vial Pre-preserved	mber	Sontaine
	-	1	ς 	***************************************	no feministrati	According	98)	· · · · · · · · · · · · · · · · · · ·	***************************************	-		YES																					REMARKS			Urine	.0,	~ ~	S Soil/Sediment	Matrix Type Codes		_:	J. MCAA	_	Teservanve Type Co	o ani, it, ome	Size(s): 20z, 40z, 80z, 160z, 320z, 1Gal 40ml, 125 ml, 250 ml, 500 ml, 41, 00ml		č	66 6	AC Air Caniste.	ES	* Container Type Cor
				-	*			Installation .	and the state of t	WYSS		8			ļ		- stockers										Pa	ge	3 ₁	of] 32									2	F	ina	: 1.0	000	်		_		Cle	S B	ore niste	Sar	ž

Execution of this document by client creates a legal and binding agroumont botween client and Xonco for analytical and testing services provided by Xonco to client under Xonco's standard terms and conditions unless previously agreed in writing. Torms of payment are Net 30 days, an Application of this document are paid in full. All laboratory analytical data and reports generated by Xonco remain the exclusive property of Xonco until invoices for such data are paid in full.

Revision Date: Nov. 12, 2009

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Date/ Time Received: 01.13.2020 11.05.25 AM

Temperature Measuring device used: R8

Work Order #: 648785

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		.3	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contai	ner/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?		N/A	
#6*Custody Seals Signed and dated?		N/A	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		Yes	Missing sample 001 (SFEW18) placed sample on HOLD.
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	p.a.oo. cap.o c
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		N/A	
#18 Water VOC samples have zero headsp	ace?	N/A	

PH Device/Lot#:

Checklist completed by:

Date: 01.13.2020

Checklist reviewed by: Jessica Vramer

Date: 01.13.2020



Certificate of Analysis Summary 649117

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wrigley To Piper Pipeline

Project Id: Contact:

Project Location:

Joel Lowry

Date Received in Lab: Wed 01.15.2020 11:49

Report Date: 01.27.2020 15:56

Project Manager: Jessica Kramer

rioject Location:								r.	roject wi	anager: 3000	nca ixian	.01
	Lab Id:	649117-0	001	649117-00	02	649117-0	003	649117-0	004	649117-0	005	
Anglusis Paguested	Field Id:	SFWW #2	22B	SFWW #2	23B	SFWW #2	4B	SFWW #	25	SFWW #2	6B	
Analysis Requested	Depth:											
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		
	Sampled:	01.13.2020	00:00	01.13.2020 (00:00	01.13.2020	00:00	01.13.2020	00:00	01.13.2020	00:00	
BTEX by EPA 8021B	Extracted:	01.24.2020	14:25	01.24.2020 1	14:25	01.24.2020	14:25	01.24.2020	14:25	01.24.2020	14:25	
	Analyzed:	01.25.2020	06:11	01.25.2020 (06:31	01.25.2020	06:51	01.25.2020	07:11	01.25.2020	07:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene	'	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00201	0.00201	
Toluene		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00201	0.00201	
Ethylbenzene		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00201	0.00201	
m,p-Xylenes		< 0.00397	0.00397	< 0.00403	0.00403	< 0.00398	0.00398	< 0.00402	0.00402	< 0.00402	0.00402	
o-Xylene		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00201	0.00201	
Total Xylenes		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00201	0.00201	
Total BTEX		< 0.00198	0.00198	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00201	0.00201	
Chloride by EPA 300	Extracted:	01.15.2020	16:25	01.15.2020 1	16:25	01.15.2020	16:25	01.16.2020	11:40	01.16.2020	11:40	
	Analyzed:	01.16.2020	07:11	01.16.2020 (07:18	01.16.2020	07:25	01.16.2020	12:03	01.16.2020	12:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		56.7	5.04	7.92	4.99	<4.96	4.96	<4.98	4.98	235	4.99	
TPH By SW8015 Mod	Extracted:	01.21.2020	11:00	01.21.2020 1	11:00	01.21.2020	11:00	01.21.2020	11:00	01.21.2020	11:00	
	Analyzed:	01.21.2020	16:13	01.21.2020 1	16:34	01.21.2020	17:16	01.21.2020	17:38	01.21.2020	17:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<49.8	49.8	< 50.0	50.0	<49.9	49.9	< 50.0	50.0	
Diesel Range Organics (DRO)		< 50.0	50.0	<49.8	49.8	< 50.0	50.0	<49.9	49.9	< 50.0	50.0	
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<49.8	49.8	< 50.0	50.0	<49.9	49.9	< 50.0	50.0	
Total TPH		< 50.0	50.0	<49.8	49.8	< 50.0	50.0	<49.9	49.9	< 50.0	50.0	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Vramer

Jessica Kramer Project Assistant



Analytical Report 649117

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry

Wrigley To Piper Pipeline

01.27.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



01.27.2020

Project Manager: Joel Lowry

Etech Environmental & Safety Solution, Inc

P.O. Box 8469 Midland, TX 79708

Reference: XENCO Report No(s): 649117

Wrigley To Piper Pipeline

Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 649117. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 649117 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Assistant

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

XENCO

Sample Cross Reference 649117

Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley To Piper Pipeline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SFWW #22B	S	01.13.2020 00:00		649117-001
SFWW #23B	S	01.13.2020 00:00		649117-002
SFWW #24B	S	01.13.2020 00:00		649117-003
SFWW #25	S	01.13.2020 00:00		649117-004
SFWW #26B	S	01.13.2020 00:00		649117-005

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CASE NARRATIVE



Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wrigley To Piper Pipeline

01.27.2020 Project ID: Report Date: Work Order Number(s): 649117

Date Received: 01.15.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3114420 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley To Piper Pipeline

Sample Id: **SFWW #22B** Matrix: Soil Date Received:01.15.2020 11:49

Lab Sample Id: 649117-001

Date Collected: 01.13.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

Date Prep: 01.15.2020 16:25 Basis:

Wet Weight

Seq Number: 3113411

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.7	5.04	mg/kg	01.16.2020 07:11		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM

01.21.2020 11:00 Date Prep:

Basis:

Wet Weight

Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
PHC610	< 50.0	50.0		mg/kg	01.21.2020 16:13	U	1
C10C28DRO	< 50.0	50.0		mg/kg	01.21.2020 16:13	U	1
PHCG2835	< 50.0	50.0		mg/kg	01.21.2020 16:13	U	1
PHC635	< 50.0	50.0		mg/kg	01.21.2020 16:13	U	1
C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	PHC610 C10C28DRO PHCG2835 PHC635	PHC610 <50.0 C10C28DRO <50.0 PHCG2835 <50.0	PHC610 <50.0 50.0 C10C28DRO <50.0 50.0 PHCG2835 <50.0 50.0 PHC635 <50.0 50.0	PHC610	PHC610 <50.0 50.0 mg/kg C10C28DRO <50.0	PHC610 <50.0 50.0 mg/kg 01.21.2020 16:13 C10C28DRO <50.0	PHC610 <50.0 50.0 mg/kg 01.21.2020 16:13 U C10C28DRO <50.0



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley To Piper Pipeline

Sample Id: **SFWW #22B** Matrix: Soil Date Received:01.15.2020 11:49

Lab Sample Id: 649117-001

Date Collected: 01.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Analyst:

KTL

Date Prep: 01.24.2020 14:25 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	01.25.2020 06:11	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	01.25.2020 06:11	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	01.25.2020 06:11	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	01.25.2020 06:11	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	01.25.2020 06:11	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	01.25.2020 06:11	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	01.25.2020 06:11	U	1
Surrogate	Ca	s Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	01.25.2020 06:11	
1,4-Difluorobenzene	540-36-3	114	%	70-130	01.25.2020 06:11	



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley To Piper Pipeline

Sample Id: **SFWW #23B** Matrix: Soil Date Received:01.15.2020 11:49

Lab Sample Id: 649117-002

Date Collected: 01.13.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

Seq Number: 3113411

01.15.2020 16:25

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.92	4.99	mg/kg	01.16.2020 07:18		1

Date Prep:

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

01.21.2020 16:34

Tech:

DVM

% Moisture:

Analyst: ARM

o-Terphenyl

01.21.2020 11:00 Date Prep:

Basis:

70-135

Wet Weight

Seq Number: 3114054

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	01.21.2020 16:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	01.21.2020 16:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	01.21.2020 16:34	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	01.21.2020 16:34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	84	%	70-135	01.21.2020 16:34		

84-15-1



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley To Piper Pipeline

Sample Id: **SFWW #23B** Matrix: Soil Date Received:01.15.2020 11:49

Lab Sample Id: 649117-002

Date Collected: 01.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Analyst:

KTL

Date Prep: 01.24.2020 14:25 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	01.25.2020 06:31	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	01.25.2020 06:31	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	01.25.2020 06:31	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	01.25.2020 06:31	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	01.25.2020 06:31	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	01.25.2020 06:31	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	01.25.2020 06:31	U	1
Surrogate	Ca	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	81	%	70-130	01.25.2020 06:31	
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.25.2020 06:31	



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley To Piper Pipeline

Sample Id: SFWW #24B

Matrix: Soil

Date Received:01.15.2020 11:49

Lab Sample Id: 649117-003

Date Collected: 01.13.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst: CH

CHE

01.15.2020 16:25

Basis:

Wet Weight

Seq Number: 3113411

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	01.16.2020 07:25	U	1

Date Prep:

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep: 01.21.2020 11:00

Basis: W

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	01.21.2020 17:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.21.2020 17:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.21.2020 17:16	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	01.21.2020 17:16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	81	%	70-135	01.21.2020 17:16		
o-Terphenyl		84-15-1	81	%	70-135	01.21.2020 17:16		



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley To Piper Pipeline

Sample Id: SFWW #24B

Matrix: Soil

Date Received:01.15.2020 11:49

Lab Sample Id: 649117-003

Date Collected: 01.13.2020 00:00

70-130

Prep Method: SW5030B

01.25.2020 06:51

% Moisture:

Tech: Analyst: KTL

Analytical Method: BTEX by EPA 8021B

KTL

Date Prep: 01.24.2020 14:25

Basis:

Wet Weight

Seq Number: 3114420

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	01.25.2020 06:51	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	01.25.2020 06:51	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	01.25.2020 06:51	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	01.25.2020 06:51	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	01.25.2020 06:51	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	01.25.2020 06:51	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	01.25.2020 06:51	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	60-00-4	86	%	70-130	01.25.2020 06:51		

113

540-36-3



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley To Piper Pipeline

Sample Id: SFWW #25 Matrix: Soil Date Received:01.15.2020 11:49

Lab Sample Id: 649117-004

Date Collected: 01.13.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

Date Prep:

01.16.2020 11:40

Basis:

Wet Weight

Seq Number: 3113568

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	01.16.2020 12:03	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

01.21.2020 17:38

% Moisture:

70-135

DVM Tech: Analyst: ARM

o-Terphenyl

01.21.2020 11:00 Date Prep:

Basis:

Wet Weight

Seq Number: 3114054

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	01.21.2020 17:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	01.21.2020 17:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	01.21.2020 17:38	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	01.21.2020 17:38	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	81	%	70-135	01.21.2020 17:38		

84-15-1



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley To Piper Pipeline

Sample Id: SFWW #25 Matrix: Soil Date Received:01.15.2020 11:49

Lab Sample Id: 649117-004

Date Collected: 01.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: Analyst: KTL

% Moisture:

KTL

Date Prep: 01.24.2020 14:25 Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	01.25.2020 07:11	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	01.25.2020 07:11	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	01.25.2020 07:11	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	01.25.2020 07:11	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	01.25.2020 07:11	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	01.25.2020 07:11	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	01.25.2020 07:11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	160-00-4	85	%	70-130	01.25.2020 07:11		
1,4-Difluorobenzene	5	540-36-3	113	%	70-130	01.25.2020 07:11		



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley To Piper Pipeline

Sample Id: **SFWW #26B** Matrix: Soil

Result

235

Cas Number

16887-00-6

Date Received:01.15.2020 11:49

Lab Sample Id: 649117-005

Date Collected: 01.13.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

01.16.2020 11:40

Wet Weight

Seq Number: 3113568

Parameter

Chloride

Date Prep:

RL

4.99

Basis:

Units

mg/kg

Dil

1

Flag

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Analysis Date

01.16.2020 12:23

Tech: Analyst: DVM **ARM**

Date Prep: 01.21.2020 11:00 % Moisture:

Basis:

Wet Weight

Seq Number: 3114054

Cas Number **Parameter** Result RLUnits **Analysis Date** Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 < 50.0 50.0 01.21.2020 17:59 U mg/kg Diesel Range Organics (DRO) C10C28DRO 50.0 01.21.2020 17:59 U < 50.0 1 mg/kg Motor Oil Range Hydrocarbons (MRO) PHCG2835 < 50.0 50.0 01.21.2020 17:59 U mg/kg 1 Total TPH PHC635 < 50.0 50.0 mg/kg 01.21.2020 17:59 U

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-135	01.21.2020 17:59	
o-Terphenyl	84-15-1	81	%	70-135	01.21.2020 17:59	



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley To Piper Pipeline

Sample Id: **SFWW #26B** Matrix: Soil Date Received:01.15.2020 11:49

Lab Sample Id: 649117-005

Date Collected: 01.13.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

Analyst:

KTL

% Moisture:

KTL

Date Prep: 01.24.2020 14:25 Basis:

Wet Weight

Seq Number: 3114420

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	01.25.2020 07:31	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	01.25.2020 07:31	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	01.25.2020 07:31	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	01.25.2020 07:31	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	01.25.2020 07:31	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	01.25.2020 07:31	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	01.25.2020 07:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	115	%	70-130	01.25.2020 07:31		
4-Bromofluorobenzene		460-00-4	91	%	70-130	01.25.2020 07:31		



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

ND Not Detected.

RLReporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit

LOQ Limit of Quantitation

DLMethod Detection Limit

Non-Calculable

SMP Client Sample

BLK

Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS

Matrix Spike

MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Flag

QC Summary 649117



Etech Environmental & Safety Solution, Inc

Wrigley To Piper Pipeline

LCSD

LCSD

Analytical Method: Chloride by EPA 300

3113411 Seg Number:

Matrix: Solid

E300P Prep Method:

RPD

Date Prep: 01.15.2020

7694448-1-BLK LCS Sample Id: 7694448-1-BKS LCSD Sample Id: 7694448-1-BSD MB Sample Id:

%RPD MB Spike LCS LCS Limits Units Analysis **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride < 0.858 250 257 103 256 90-110 0 20 01.16.2020 03:54 102

mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3113568 Matrix: Solid

Prep Method:

E300P 01.16.2020

MB Sample Id: 7694508-1-BLK

7694508-1-BKS LCS Sample Id:

LCSD Sample Id: 7694508-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec %Rec Limit Date Result

20 01.16.2020 11:50 Chloride < 0.858 250 257 103 257 103 90-110 0 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

3113411

Matrix: Soil

Prep Method:

Date Prep:

E300P

01.15.2020 Date Prep: Parent Sample Id: 649086-001

MS Sample Id: 649086-001 S MSD Sample Id: 649086-001 SD

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limite Analysis **Parameter** Flag Result Result %Rec Limit Date Amount Result %Rec 01.16.2020 04:16 Chloride 122 198 20 299 89 295 87 90-110 mg/kg X

Analytical Method: Chloride by EPA 300

Seg Number:

3113411

Matrix: Soil

E300P Prep Method:

Flag

01.15.2020 Date Prep: Parent Sample Id: 649086-002 MS Sample Id: 649086-002 S MSD Sample Id: 649086-002 SD

RPD **Parent** Spike MS MS MSD MSD Limits %RPD Units Analysis **Parameter** Result Limit Date

Result Amount %Rec %Rec Result 01.16.2020 05:58 82 20 Chloride 109 198 272 274 83 90-110 mg/kg X

Analytical Method: Chloride by EPA 300

Prep Method:

E300P

Seq Number: 3113568 Matrix: Soil 01.16.2020 Date Prep:

649117-004 S 649117-004 SD Parent Sample Id: 649117-004 MS Sample Id: MSD Sample Id:

Parent Spike MS MS Limits %RPD RPD Units Analysis MSD MSD Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec 01.16.2020 12:10 20 Chloride 2.27 249 274 109 2.74 109 90-110 0 mg/kg

Analytical Method: Chloride by EPA 300

3113568 Seq Number:

Matrix: Soil

E300P Prep Method:

> 01.16.2020 Date Prep:

MSD Sample Id: 649235-003 SD 649235-003 S MS Sample Id: Parent Sample Id: 649235-003

Spike %RPD RPD Parent MS MS Units **MSD** MSD Limits Analysis Flag **Parameter** Result Result Limit Date Amount %Rec %Rec Result 01.16.2020 13:43 20 Chloride 21.0 252 298 110 294 108 90-110 1 mg/kg

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

= MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

Flag

Flag

Flag

SW8015P

Analysis

Date



QC Summary 649117

Etech Environmental & Safety Solution, Inc

Wrigley To Piper Pipeline

Analytical Method: TPH By SW8015 Mod

Prep Method: Seg Number: 3114054 Matrix: Solid Date Prep: 01.21.2020

LCS Sample Id: 7694873-1-BKS LCSD Sample Id: 7694873-1-BSD MB Sample Id: 7694873-1-BLK

RPD MB Spike LCS LCS Limits %RPD Units Analysis LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) 1000 953 95 972 20 01.21.2020 11:58 <15.0 97 70-135 2 mg/kg 72 0 01.21.2020 11:58 Diesel Range Organics (DRO) 1000 722 72.1 72 70-135 20 mg/kg <15.0

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 01.21.2020 11:58 1-Chlorooctane 86 99 70-135 86 % 01.21.2020 11:58 o-Terphenyl 87 79 77 70-135 %

SW8015P Analytical Method: TPH By SW8015 Mod Prep Method:

3114054 Date Prep: Seq Number: Matrix: Solid 01.21.2020

MB Units **Parameter**

Result

01.21.2020 11:37 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

MB Sample Id: 7694873-1-BLK

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

3114054 Seq Number: Matrix: Soil Date Prep: 01.21.2020 Parent Sample Id: 649567-021 MS Sample Id: 649567-021 S MSD Sample Id: 649567-021 SD

Parent Spike MS MS %RPD RPD MSD MSD Limits Units Analysis Flag **Parameter** Result Limit Amount Result %Rec Result %Rec Date 01.21.2020 13:02 Gasoline Range Hydrocarbons (GRO) <15.0 997 1000 100 1010 70-135 20 mg/kg 1 01.21.2020 13:02 Diesel Range Organics (DRO) 23.7 997 909 89 913 89 70-135 0 20 mg/kg

MSD MS MS Units Analysis **MSD** Limits **Surrogate** %Rec Flag Flag Date %Rec 01.21.2020 13:02 1-Chlorooctane 90 90 70 - 135% 01.21.2020 13:02 o-Terphenyl 81 84 70-135 %

SW5030B Analytical Method: BTEX by EPA 8021B Prep Method:

Seq Number: 3114420 Date Prep: 01.24.2020 Matrix: Solid LCS Sample Id: 7695138-1-BKS LCSD Sample Id: 7695138-1-BSD MB Sample Id: 7695138-1-BLK

LCS %RPD RPD MB LCS Units Spike Limits Analysis LCSD LCSD Parameter Result Amount Result %Rec Limit Date %Rec Result < 0.000385 01.25.2020 03:52 Benzene 0.119 70-130 35 0.100 0.120 120 119 1 mg/kg < 0.000456 mg/kg 01.25.2020 03:52 Toluene 0.100 0.105 105 0.104 104 70-130 1 35 < 0.000565 01.25.2020 03:52 35 Ethylbenzene 0.1000.0968 97 0.0960 96 70-130 1 mg/kg 01.25.2020 03:52 95 m,p-Xylenes < 0.00101 0.200 0.190 0.189 95 70-130 1 35 mg/kg < 0.000344 01.25.2020 03:52 o-Xylene 0.100 0.0989 99 0.0968 97 70-130 2 35 mg/kg

MB LCS LCSD LCS Limits Units MB **Analysis** LCSD Surrogate %Rec Flag %Rec Flag Flag Date %Rec 01.25.2020 03:52 1.4-Difluorobenzene 104 107 107 70-130 % 01.25.2020 03:52 4-Bromofluorobenzene 78 91 70-130 94 %

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

= MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec 4-Bromofluorobenzene

01.25.2020 04:32

QC Summary 649117



Etech Environmental & Safety Solution, Inc

Wrigley To Piper Pipeline

96

70-130

Prep Method: SW5030B Analytical Method: BTEX by EPA 8021B Seq Number: Matrix: Soil 3114420 Date Prep: 01.24.2020

MS Sample Id: 649117-001 S MSD Sample Id: 649117-001 SD Parent Sample Id: 649117-001

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.000381	0.0990	0.0976	99	0.0968	97	70-130	1	35	mg/kg	01.25.2020 04:32	
Toluene	0.000665	0.0990	0.0832	83	0.0822	82	70-130	1	35	mg/kg	01.25.2020 04:32	
Ethylbenzene	< 0.000559	0.0990	0.0766	77	0.0769	77	70-130	0	35	mg/kg	01.25.2020 04:32	
m,p-Xylenes	< 0.00100	0.198	0.150	76	0.150	75	70-130	0	35	mg/kg	01.25.2020 04:32	
o-Xylene	0.000387	0.0990	0.0792	80	0.0783	78	70-130	1	35	mg/kg	01.25.2020 04:32	
Surrogate			M %I		MS Flag	MSD %Red			imits	Units	Analysis Date	
1,4-Difluorobenzene			11	12		113		70	-130	%	01.25.2020 04:32	

99

	Houston: 4143 Greenbnar Dr. Stafford, TX 77477 (281)240-4200 to Education (1997) to Ed	r Dr. Stafford, TX 77477 (281)24	7 (281)240-4200 Phone:	Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800 (575)396-2378	est I-20 East Ode	East Odessa, TX 79765 T Work Days = D	5 (432)563-1800 L
1 .3	Etech Environmental		Phone:	(575)396-2378			ĺ
ess:	3100 Plains Hwy.		<u> </u>	(575)396-1429	St	Std (5-7D) 5Hrs 1D 2D	Hrs
	Lovington	State:	NM Zip:	88260			
PM/Attn: L	Lance Crenshaw	Email:		pm@etechenv.com	Cont Type * VC	GC GC	\mathcal{O}
Project ID:	Wrigley to Piper Pipeline		PO#:	PAA-C. Bryant	Pres Type**		
Invoice To: F	Ralph Tijerina, Goodnight Midstream	m	Quote #:		260		
Sampler Name: Catalina Villa	ē.	Circle One Event: Daily Semi-Annual Annual I	Daily Weekly ıal N/A	Monthly Quartely	ample	8015M	TEX
imple#	Sample ID	Collect Collect Date Time	ect Matrix ne Code ^	Field Filtered Integrity OK (Y/N) Total # of containers		TPH	В
Si					#Cont La	Lab Only:	
	SFWW #22B	1/13/2020	SOIL			×	×
2	SFWW #23B	1/13/2020	SOIL	_1		×	×
ω	SFWW #24B	1/13/2020	SOIL	-3		×	\times
4	SFWW #25	1/13/2020	SOIL	1		×	×
5	SFWW #26B	1/13/2020	SOIL	_		×	\times
6_							
_7							
8							
9							
0							
	ram / Clean-up	STATE for Certs & Regs	arts & Regs	QA/QC Lev	QA/QC Level & Certification	On.	
CTLs TRRP Other:	DW NPDES LPST DryCin	FL TX GA NC SC AL NM Other:	NJ PA OK LA	1 2 3 4 CLP NELAC DoD-ELAP	AFCEE Other:		ADaPT SE XLS Other:
<u>-</u>	mu an			F-14-20			7
2							
ယ							+
4							

Rec ve property of Xenco until invoices for such data are paid in full.

pH verified-acceptable, excl VOCs? Received on time to meet HTs?

C.O.C. Serial #

Proper containers used?

VOCs rec'd w/o headspace?

Labeled with proper preservatives?
Received within holding time?
Custody seals intact?

Received on Wet Ice?

Samples intact upon arrival?

Von-Conformances found?

Lab Use Only

PES NO NA

A. None E. HCL I. Ice B. HNO₃ F. MED J. MCAA H₂SO₃ G. Na₂S₂O₃ K. ZnAc&NaOH D. NaOH H. NaHSO₄ L Asbc Acid&NaOH

ņ

A Matrix Type Codes

GW Ground Water S Soil/Sediment/Solid
WW Waste Water W Wipe
DW Dinking Water A Air
SW Surface Water O Oil
OW Ocean/Sea Water T Tissue
PL Product-Liquid U Unine
PS Product-Solid B Blood
SL Sludge
Other

REMARKS

VA Vial Amber
VC Vial Clear
VP Vial Pre-preserved /
GA Glass Amber
GC Glass Clear
PA Plastic Amber
PC Plastic Clear
Other

Val Amber ES Enzore Sampler Vial Clear TS Terractore Sampler Vial Pre-preserved AC Air Canister Glass Amber TB Tealth Cheer Plastic Amber PC Plastic Clear Poperty Clear

Size(s): 20z, 40z, 80z, 160z, 32oz , 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other

** Preservative Type Codes



Work Order #: 649117

XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 01/15/2020 11:49:00 AM

Checklist reviewed by:

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Date: 01/15/2020

Temperature Measuring device used: R8

WOIR Older #: Older		
	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		.6
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	es?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinqu	uished/ received?	Yes
#10 Chain of Custody agrees with sampl	e labels/matrix?	Yes
#11 Container label(s) legible and intact?		Yes
#12 Samples in proper container/ bottle?		Yes
#13 Samples properly preserved?		Yes
#14 Sample container(s) intact?		Yes
#15 Sufficient sample amount for indicate	ed test(s)?	Yes
#16 All samples received within hold time	e?	Yes
#17 Subcontract of sample(s)?		N/A
#18 Water VOC samples have zero head	dspace?	N/A
* Must be completed for after-hours de	livery of samples prior to placing in	the refrigerator
Analyst:	PH Device/Lot#:	
	River Toll	
Checklist completed by:	Dunce all	Date: 01/15/2020

Brianna Teel



Certificate of Analysis Summary 650005

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wrigley to Piper Pipeline



Project Id: Contact:

Joel Lowry

Project Location:

Date Received in Lab: Thu Jan-23-20 11:15 am

Report Date: 24-JAN-20

Project Manager: Jessica Kramer

	Lab Id:	650005-00)1	650005-00)2	650005-0	03	650005-00	04		
Analysis Requested	Field Id:	SFWW31	В	SFEW12	В	SFEW14	В	SFEW17	В		
Anaiysis Kequesiea	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Jan-22-20 0	0:00								
Chloride by EPA 300	Extracted:	Jan-23-20 1	7:00								
	Analyzed:	Jan-23-20 2	0:16	Jan-23-20 2	1:09	Jan-23-20 2	1:16	Jan-23-20 2	1:22		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		<4.99	4.99	< 5.03	5.03	119	5.01	< 5.00	5.00		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Jessica Weamer

Jessica Kramer Project Assistant

Analytical Report 650005

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry
Wrigley to Piper Pipeline

24-JAN-20

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)





24-JAN-20

Project Manager: **Joel Lowry Etech Environmental & Safety Solution, Inc**P.O. Box 8469
Midland, TX 79708

,

Reference: XENCO Report No(s): 650005

Wrigley to Piper Pipeline

Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 650005. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 650005 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 650005



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SFWW3B	S	01-22-20 00:00		650005-001
SFEW12B	S	01-22-20 00:00		650005-002
SFEW14B	S	01-22-20 00:00		650005-003
SFEW17B	S	01-22-20 00:00		650005-004

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wrigley to Piper Pipeline

Project ID: Report Date: 24-JAN-20 Work Order Number(s): 650005 Date Received: 01/23/2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id: SFWW3B Matrix:

Soil

Date Received:01.23.20 11.15

Lab Sample Id: 650005-001

Date Collected: 01.22.20 00.00

Prep Method: E300P

% Moisture:

Tech: Analyst: CHE

CHE

Analytical Method: Chloride by EPA 300

Date Prep:

01.23.20 17.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	01.23.20 20.16	U	1





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id: SFEW12B Matrix:

Soil

01.23.20 17.00

Date Received:01.23.20 11.15

Wet Weight

Lab Sample Id: 650005-002

Analytical Method: Chloride by EPA 300

CHE

CHE

Date Collected: 01.22.20 00.00

Prep Method: E300P

Date Prep:

% Moisture:

Basis:

Seq Number: 3114309

Tech:

Analyst:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 5.03	5.03	mg/kg	01.23.20 21.09	U	1





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id: SFEW14B Matrix:

Soil

Date Received:01.23.20 11.15

Lab Sample Id: 650005-003

Date Collected: 01.22.20 00.00

Prep Method: E300P

Tech:

Analytical Method: Chloride by EPA 300

% Moisture:

Analyst:

CHE CHE

Date Prep:

01.23.20 17.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	119	5.01	mg/kg	01.23.20 21.16		1





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id: SFEW17B Matrix:

Soil

Date Received:01.23.20 11.15

Lab Sample Id: 650005-004

Date Collected: 01.22.20 00.00

Prep Method: E300P

Tech: Analyst:

Analytical Method: Chloride by EPA 300

% Moisture:

CHE CHE

01.23.20 17.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 5.00	5.00	mg/kg	01.23.20 21.22	U	1



Flagging Criteria



Page 685 of 744

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 650005

Etech Environmental & Safety Solution, Inc

Wrigley to Piper Pipeline

252

Analytical Method: Chloride by EPA 300

Seq Number: 3114309

7695083-1-BLK

Matrix: Solid

Prep Method:

E300P

MB Sample Id:

Date Prep:

01.23.20

LCS Sample Id: 7695083-1-BKS

LCSD Sample Id: 7695083-1-BSD %RPD RPD Limit Units

Analysis Date

Parameter Chloride

MR Spike Result Amount 1.88 250

LCS LCS Result %Rec 250 100 **LCSD** LCSD %Rec Result

101

93

Limits 90-110

20 mg/kg 01.23.20 18:30

Flag

Analytical Method: Chloride by EPA 300

3114309

Matrix: Soil

E300P Prep Method: Date Prep:

Parent Sample Id:

649839-030

01.23.20

Parameter

Seq Number:

MS Sample Id: 649839-030 S

3

MSD Sample Id: 649839-030 SD %RPD RPD Limit Units

Flag

Chloride

Parent Result

12.2

Spike MS Result Amount 300

300

MS %Rec 96

MSD MSD Result %Rec 292

Limits 90-110

20 mg/kg Analysis Date

01.23.20 18:50

Seq Number:

3114309

Analytical Method: Chloride by EPA 300

250

Matrix: Soil

Prep Method:

E300P

01.23.20

Parent Sample Id:

650005-001

MS Sample Id: 650005-001 S

Date Prep: MSD Sample Id: 650005-001 SD

Parameter

MS MS %Rec

MSD MSD Result

%Rec

%RPD RPD Limit Units

Analysis Flag

Chloride

Parent Spike Result Amount

3.75

Result 265

105

259 102

90-110

Limits

20

2

mg/kg

Date 01.23.20 20:23

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec ဖ

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0

TRRP

DW NPDES

LPST

DryCln

TX GA NC

SC NJ PA OK LA

1 2 NELAC

3 4 CLP C DoD-ELAP

Other: AFCEE QAPP

ADaPT SEDD ERPIMS XLS Other:

Match Incomplete Absent

Affiliation Unclear COC & Labels

Coolers

G. dwe

i O

Samples intact upon arrival?

on-Conformances found?

Lab Use Only

TES NO N/A

Received on Wet Ice?

_abeled with proper preservatives?

pH verified-acceptable, excl VOCs VOCs rec'd w/o headspace? Received within holding time?

Received on time to meet HTs?

EDDs

Time

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06-66

STATE for Certs & Regs

QA/QC Level & Certification

Reg. Program / Clean-up Std

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4

/22/2020

SOIL SOIL

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SFEW12B SFEW14B SFEW17B

> /22/2020 /22/2020

> > SOIL

 \times × SFWW3B

/22/2020

SOIL

G

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Company:

Ç ₹

Sampler Name:

nvoice To:

Ralph Tijerina, Goodnight Midstream

Catalina Villa

Semi-Annual Annual Circle One Event: Daily

×

Weekly

Monthly

Quartel

Example Volatiles by 8260

TPH 8015M

BTEX

CI

Hold Sample

Run PAH

^ Matrix Type Codes

CALL Y

GW Ground Water S (
WW Waste Water W W
DW Dinnking Water A /
SW Surface Water O C
OW Ocean/Sea Water T 1
PL Product-Liquid U PS Product-Liquid B E
SL Surdge

Soil/Sediment/Solid
Wipe
Wipe
Oli
Tissue
Unine
Blood

REMARKS

Quote #:

Sample #

Sample

ō

Collect Date

Collect Time

Code * Matrix

Field

Integrity OK (Y/N)

Total # of

Lab Only

Project ID: PM/Attn: Address: Lovington Etech Environmenta 3100 Plains Hwy. Wrigley to Piper Pipeline Lance Crenshaw Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12800 West I-20 East Odessa, TX 79765 (432)563-1800 ;roool-c State: Email: CHAIN OF CUSTODY RECORD Ζ Phone: PO#: pm@etechenv.com <u>2</u>i Fax: 88260 PAA-C. Bryant (575)396-2378 (575)396-1429 has Type" TAT Work Days = D Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D ရှင G Need results by: GC ANALYSES REQUESTED Field billable Hrs LAB W.O#: Page 1 14D Other Time: A. None E. HCL
B. HNO₃ F. MeOH
H₂SO₄ G. Na₂S₂O₃ I
D. NaOH H. NaHSO₄
O. VA Vial Amber
VC Vial Clear
VP Vial Propreserved
GA Glass Amber
GC Glass Clear
PA Plastic Amber
PC Plastic Clear
Other Size(s): 2oz, 4oz, 8oz, 16oz, 32oz , 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other ** Preservative Type Codes * Contai I. Ice
J. MCAA
J. K. Znac&NaOH
L. Asbe Acid&NaOH SSSERRA Encore Sampler
TerraCore Sampler
Air Canister
Tedlar Bag
Zip Lock Bag
Plastic Clear

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and early past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full. Revision Date: Nov 12, 2009	338.4 Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330 C.O.C. Serial # Correct Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099
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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Date/ Time Received: 01.23.2020 11.15.00 AM

Temperature Measuring device used: R8

Work Order #: 650005

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		.3	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	ner/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?		N/A	
#6*Custody Seals Signed and dated?		N/A	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		N/A	
#18 Water VOC samples have zero headsp	ace?	N/A	

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 01.23.2020

Checklist reviewed by: Jessica Vramer

Date: 01.23.2020



Certificate of Analysis Summary 650006

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wrigley to Piper Pipeline



Project Id: Contact:

Project Location:

Joel Lowry

Date Received in Lab: Thu Jan-23-20 11:15 am

Report Date: 24-JAN-20

Project Manager: Jessica Kramer

	Lab Id:	650006-001			
Analysis Requested	Field Id:	EW15B			
Anaiysis Kequesieu	Depth:				
	Matrix:	SOIL			
	Sampled:	Dec-30-19 00:00			
Chloride by EPA 300	Extracted:	Jan-23-20 17:00			
	Analyzed:	Jan-23-20 21:29			
	Units/RL:	mg/kg RL			
Chloride		< 5.00 5.00			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Vermer

Analytical Report 650006

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry
Wrigley to Piper Pipeline

24-JAN-20

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)





24-JAN-20

Project Manager: **Joel Lowry Etech Environmental & Safety Solution, Inc**P.O. Box 8469
Midland, TX 79708

Wildiand, 174 17100

Reference: XENCO Report No(s): 650006

Wrigley to Piper Pipeline

Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 650006. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 650006 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 650006



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
EW15B	S	12-30-19 00:00		650006-001

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wrigley to Piper Pipeline

Project ID: Report Date: 24-JAN-20 Work Order Number(s): 650006 Date Received: 01/23/2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id: EW15B Matrix:

Soil

Date Received:01.23.20 11.15

Lab Sample Id: 650006-001

Date Collected: 12.30.19 00.00

Prep Method: E300P

Tech:

Analytical Method: Chloride by EPA 300

% Moisture:

Analyst:

CHE CHE

Date Prep:

01.23.20 17.00

Basis:

Wet Weight

Seq Number: 3114309

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 5.00	5.00	mg/kg	01.23.20 21.29	U	1



Flagging Criteria



Page 695 of 744

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

Reporting Limit RL

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

LOQ Limit of Quantitation PQL Practical Quantitation Limit MQL Method Quantitation Limit

Method Detection Limit DL

NC Non-Calculable

BLK Method Blank **SMP** Client Sample

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 650006

Etech Environmental & Safety Solution, Inc

Wrigley to Piper Pipeline

Analytical Method: Chloride by EPA 300

Seq Number: 3114309

7695083-1-BLK

MR

Matrix: Solid

LCS Sample Id: 7695083-1-BKS

E300P Prep Method:

Date Prep: 01.23.20

LCSD Sample Id: 7695083-1-BSD

Spike LCS LCS Limits %RPD RPD Limit Units **LCSD** LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result

Chloride 90-110 01.23.20 18:30 1.88 250 250 100 252 101 20 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3114309

MB Sample Id:

Matrix: Soil

Prep Method: Date Prep: E300P

01.23.20

MSD Sample Id: 649839-030 SD Parent Sample Id: 649839-030 MS Sample Id: 649839-030 S

Spike MS MS %RPD RPD Limit Units Parent **MSD** MSD Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec

Chloride 12.2 300 300 96 292 93 90-110 3 20 01.23.20 18:50 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number:

Parent Sample Id:

3114309

650005-001

Matrix: Soil

MS Sample Id:

650005-001 S

Prep Method:

E300P

Date Prep: 01.23.20 MSD Sample Id: 650005-001 SD

%RPD RPD Limit Units MS MS Parent Spike **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec 01.23.20 20:23 Chloride 3.75 250 265 105 259 102 90-110 2 20 mg/kg

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec 0 9 ထ

TRRP

₹

NPDES

LPST

DyCln

FL TX GA NC SC NJ PA OK LA AL NM Other:

1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:

ADaPT SEDD ERPIMS XLS Other:

Match Incomplete Absent Unclear COC & Labels

Coolers 2

Temp °C 60

Lab Use Only

ES NO NA

EDDs

Received by ななる

1 S Affiliation QA/QC Level & Certification

4224

1-22.00

STATE for Certs & Regs

Reg. Program / Clean-up Std

တ '<u>ဟ</u> 4 'ယ 'N

ယ

Catalina Villa Sampler Name:

Semi-Annual Circle One Event: Daily

Weekly

Monthly

Quartely

Example Volatiles by 8260

TPH 8015M

BTEX

CI

Hold Sample (CALL__) Run PAH

Soil/Sediment/Solid
Wipe
Air
Oil
Tissue
Unine
Blood

REMARKS

Collect

Collect Annual

Time

Code ^ Matrix

Field Filtered

Integrity OK (Y/N)

Total # of containers

Lab Only:

×

Ralph Tijerina, Goodnight Midstream

Sample #

EW15B

12/30/2019

SOIL

Page 697 of 744 Addre

T T	6	CHA	CHAIN OF CUSTODY RECORD	Y RECORD Page 1 of 1	* Container Type Codes
Labor	Houston: 4143 Greenbnar Dr. Stafford, rocol-c	TX 77477 (281)240-4200 Odessa: 12600 We	なでも	erved AC
Exploramental Ast	Environmental Asbertos Boshochemistry				8 4 8
Company:	Company: Etech Environmental		Phone: (575)396-2378	leid billable Hrs :	er PC
Address:	3000			Ime:	Ciner
	3100 Plains Hwy.		Fax: (575)396-1429	Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D 0ther	Size(s): 20z, 40z, 80z, 160z, 320z , 1Gal
City:	Lovington	State: NM Zip:	Zip: 88260	The second to the second secon	40ml, 125 ml, 250 ml, 500 ml, 1L, Other
PM/Attn:			00000	ANALYSES REQUESTED	" Preservative Type Codes
י ואויאנווי.	Lance Crenshaw	Email:	pm@etechenv.com com Type *	CONT.Type: GC GC GC GC	A None of the Control
Project ID:	Whichest		PO#:		B. HNO. F. MeOH J. MCAA
	Wrigley to Piper Pipeline		PAA-C. Bryant	Pres Type **	H.SO. G. Naz.SO. K. ZnAc&NAOH D. NaOH H. NaHSO. I Ashs AsideNaou
Invoice To:	Ralph Tilerina Goodnight Midetreem		Quote #:		O. CONTRACTOR OF THE PROPERTY

b 10 201100 Control of Currents Control of Carolina (10-444-809) Philadelphia 610-955-5649 South Carolina 803-543-8099	PETS Service Centers: Atlanta 770 AA0 8800 I - I - 1 200 640 650 650 650 650 650 650 650 650 650 65	Carries, nobes 373-392-7300 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 310 500 332-751	28.2 aboratorios: Lobbo 676 303 4770 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Received on time to meet HTs? pH verified-acceptable, excl VOCs? Received within holding time?

ustody seals intact?

_abeled with proper preservatives?

VOCs rec'd w/o headspace?

Proper containers used?

Samples intact upon arrival?

Received on Wet Ice? Non-Conformances found?

^ Matrix Type Codes

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 01.23.2020 11.15.00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 650006

Temperature Measuring device used: R8

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		.3	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	ner/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?		N/A	
#6*Custody Seals Signed and dated?		N/A	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ed/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated t	est(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		N/A	
#18 Water VOC samples have zero headsp	ace?	N/A	

Must be completed fo	r after-hours deliver	y of samples	prior to placin	g in the refrigerator

٩na	lyst:	

PH Device/Lot#:

Checklist completed by:

Date: 01.23.2020

Checklist reviewed by: Jessica Vramer

Date: 01.23.2020



Certificate of Analysis Summary 650305

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wrigley to Piper Pipeline



Project Id: Contact:

Project Location:

Joel Lowry

Date Received in Lab: Mon Jan-27-20 08:00 am

Report Date: 28-JAN-20

Project Manager: Jessica Kramer

	Lab Id:	650305-001			
Analysis Paguested	Field Id:	SFEW18			
Analysis Requested	Depth:				
	Matrix:	SOIL			
	Sampled:	Jan-18-20 00:00			
Chloride by EPA 300	Extracted:	Jan-27-20 09:40			
	Analyzed:	Jan-27-20 11:20			
	Units/RL:	mg/kg RL			
Chloride		<4.95 4.95			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Jessica Vermer

Jessica Kramer Project Assistant

Analytical Report 650305

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry
Wrigley to Piper Pipeline

28-JAN-20

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)

Page 2 of 10





28-JAN-20

Project Manager: Joel Lowry

Etech Environmental & Safety Solution, Inc P.O. Box 8469

Midland, TX 79708

Reference: XENCO Report No(s): 650305

Wrigley to Piper Pipeline

Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 650305. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 650305 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

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Sample Cross Reference 650305



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SFEW18	S	01-18-20 00:00		650305-001

Version: 1.%

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wrigley to Piper Pipeline

Project ID:

Work Order Number(s): 650305

Report Date: 28-JAN-20

Date Received: 01/27/2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Soil

Sample Id: SFEW18

Matrix:

Date Received:01.27.20 08.00

Lab Sample Id: 650305-001

Date Collected: 01.18.20 00.00

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

CHE

% Moisture:

Analyst:

CHE

01.27.20 09.40 Date Prep:

Basis:

Wet Weight

Seq Number: 3114615

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	01.27.20 11.20	U	1



Flagging Criteria



- Page 705 of 744
- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 650305

Etech Environmental & Safety Solution, Inc

Wrigley to Piper Pipeline

258

Analytical Method: Chloride by EPA 300

Seq Number: 3114615 Matrix: Solid

Prep Method:

E300P

Date Prep:

01.27.20

MB Sample Id:

7695297-1-BLK

LCS Sample Id: 7695297-1-BKS

LCSD Sample Id: 7695297-1-BSD %RPD RPD Limit Units

Analysis Flag Date

Parameter Chloride

MB Result Amount < 0.858

LCS LCS Result %Rec

257

LCSD LCSD %Rec Result

103

Limits 90-110

0 20 mg/kg 01.27.20 09:50

Analytical Method: Chloride by EPA 300

3114615

Matrix: Soil

103

Prep Method:

E300P

Seq Number:

650242-001

Date Prep:

01.27.20

Parent Sample Id:

MS Sample Id: 650242-001 S MSD Sample Id: 650242-001 SD

01.27.20 10:27

Parameter

MS MS **MSD** MSD

%RPD RPD Limit Units Limits

0

Analysis

Flag

Chloride

Parent Result

108

Spike Amount 253

Spike

250

Result %Rec 370 104

Result 369 %Rec 103 90-110

20 mg/kg Date

Analytical Method: Chloride by EPA 300

3114615

Matrix: Soil

Prep Method:

E300P

Seq Number: Parent Sample Id:

650242-002

MS Sample Id:

650242-002 S

Date Prep: 01.27.20 MSD Sample Id: 650242-002 SD

Parameter

Parent Spike

MS MS Result %Rec

MSD Result 382

MSD %Rec 90-110 %RPD RPD Limit Units

Analysis

Chloride

Result Amount 127 248

384 104

103

Limits

20

mg/kg

Flag Date 01.27.20 12:00

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec ဖ ြထ '၈

4 ^اس

<u>က</u>

Houston: 4143 Greenbriar Dr. Stafford, T.	X 77477 (281)240-	OF CUSTOI	CHAIN OF CUSTODY RECORD Page 1 of 1	tainer Ty
Laboratories (10001-c	X 11411 (201)240-1	+zuu Coessa: 1zbuu We	Coessa: 12000 West 1-20 East Odessa, TX 79765 (432)563-1800 LAB W.O#: \(\sum_{0.5} \sum_{0.5} \sum_	Vial Clear TS Vial Pre-preserved AC Glass Amber TB
Company: Etach Environmental	Dho	1	Field billable Hrs :	뾱
- cecil Environmental	Filolie,	(575)396-2378	TAT Work Days = D Need results by:	
Address: 3100 Plains Hwy.	Fax:	(575)396-1429	Hrs 1D 2D 3D 4D 5D 7D 10D 14D 04	Size(s): 20z, 40z, 80z, 16oz, 32oz, 1Gal
City: Lovington	State: NM Zip:	88260		40mi, 125 mi, 250 mi, 500 mi, 1L, Other
PM/Attn: Lance Crenshaw	Email:	Metecheny com	Cont Type	i leseradive Type Codes
		Wetecheniv.com	GC GC GC	
Wrigley to Piper Pipeline	TC#:	PAA-C. Bryant	Pres Type**	B. HNO3 F. MeOH J. MCAA C. C. H. SO4 G. Na,S2O3 K. Znac&NaOH C.
Invoice Io: Ralph Tijerina, Goodnight Midstream	Quote #:	te #:		0
Sampler Name: Circle One E: Catalina Villa Semi-Annual	vent: Daily Wee Annual N/A	Circle One Event: Daily Weekly Monthly Quartely Semi-Annual Annual N/A	Sample Run	GW Ground Water S Soil/Sediment/Solid WW Waste Water W Wipe
# Collect	Collect Matrix	d ed fity /M)	BT (DW Drinking Water A Air SW Surface Water T Tierro
Sampl	Time Code	File Filte Integ	(CALL)	PL Product-Liquid U PS Product-Solid B SL Sludge
			#Cont Lab Only:	REMARKS
1SFEW181/18/2020	SOIL	1	× KV5H	
2				

Reg. Program / Clean-up Sid STATE for Certs & Regs OA/QC Level & Certification EDDs CILIS TERP DW NPDES LPST DyClin R-TX oA, NC SC NJ PA OK LA 1 2 3 4 CLP AFCEE OAPP ADAPT SEDD ERRPINAS Match Incomplete About Condemn Indicated upon analytical data and reports generated by Xenco to client under \$2,000 & Libels Coolers Temp* C Coolers

Page 9 of 10



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 01/27/2020 08:00:00 AM

Checklist reviewed by:

Work Order #: 650305

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used: R8

Work Order #. 030303		
	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		4.2
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	es?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinque	uished/ received?	Yes
#10 Chain of Custody agrees with sample	le labels/matrix?	Yes
#11 Container label(s) legible and intact	?	Yes
#12 Samples in proper container/ bottle?		Yes
#13 Samples properly preserved?		Yes
#14 Sample container(s) intact?		Yes
#15 Sufficient sample amount for indicat	ed test(s)?	Yes
#16 All samples received within hold time	e?	Yes
#17 Subcontract of sample(s)?		N/A
#18 Water VOC samples have zero head	dspace?	N/A
* Must be completed for after-hours de	livery of samples prior to placing in	the refrigerator
Analyst:	PH Device/Lot#:	
Checklist completed by:	Britanna Teel	Date: 01/27/2020

Jessica Kramer

Date: 01/27/2020



Certificate of Analysis Summary 651246

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wrigley to Piper Pipeline

Page 709 o

Project Id: Contact:

Joel Lowry

Project Location:

Date Received in Lab: Tue Feb-04-20 11:45 am

Report Date: 06-FEB-20

Project Manager: Jessica Kramer

	Lab Id:	651246-0	001	651246-0	002	651246-0	003	651246-	004	651246-	005	
Analysis Requested	Field Id:	NW42	A	NW431	В	NW44	В	NW45	A	EWN	2	
	Depth:											
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	_	
	Sampled:	Feb-03-20	12:55	Feb-03-20	12:20	Feb-03-20	11:12	Feb-03-20	10:20	Feb-03-20	09:45	
BTEX by EPA 8021B	Extracted:	Feb-05-20	16:00									
	Analyzed:	Feb-05-20	23:44	Feb-06-20	00:04	Feb-06-20	00:24	Feb-06-20	00:44	Feb-06-20	01:04	
	Units/RL:	mg/kg	RL									
Benzene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	
Toluene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	
Ethylbenzene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	
m,p-Xylenes		< 0.00398	0.00398	< 0.00398	0.00398	< 0.00402	0.00402	< 0.00401	0.00401	< 0.00401	0.00401	
o-Xylene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	
Total Xylenes		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	
Total BTEX		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	
Chloride by EPA 300	Extracted:	Feb-04-20	13:10									
	Analyzed:	Feb-04-20	16:21	Feb-04-20	16:41	Feb-04-20	16:48	Feb-04-20	16:55	Feb-04-20	17:01	
	Units/RL:	mg/kg	RL									
Chloride		8.15	5.01	7.61	4.97	631	5.00	50.6	4.96	22.4	4.99	
TPH By SW8015 Mod	Extracted:	Feb-04-20	13:00									
	Analyzed:	Feb-04-20	17:50	Feb-04-20	18:09	Feb-04-20	18:29	Feb-04-20	18:48	Feb-04-20	19:07	
	Units/RL:	mg/kg	RL									
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<49.9	49.9	<49.9	49.9	<49.9	49.9	< 50.0	50.0	
Diesel Range Organics (DRO)		< 50.0	50.0	<49.9	49.9	<49.9	49.9	<49.9	49.9	< 50.0	50.0	
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<49.9	49.9	<49.9	49.9	<49.9	49.9	< 50.0	50.0	
Total TPH		< 50.0	50.0	<49.9	49.9	<49.9	49.9	<49.9	49.9	< 50.0	50.0	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Vramer

Analytical Report 651246

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry
Wrigley to Piper Pipeline

06-FEB-20

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)





06-FEB-20

Project Manager: Joel Lowry

Etech Environmental & Safety Solution, Inc P.O. Box 8469 Midland, TX 79708

Reference: XENCO Report No(s): 651246

Wrigley to Piper Pipeline

Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 651246. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 651246 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 651246



Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NW42A	S	02-03-20 12:55		651246-001
NW43B	S	02-03-20 12:20		651246-002
NW44B	S	02-03-20 11:12		651246-003
NW45A	S	02-03-20 10:20		651246-004
EWN2	S	02-03-20 09:45		651246-005

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wrigley to Piper Pipeline

Project ID:

Report Date: 06-

06-FEB-20

Work Order Number(s): 651246

Date Received: 02/04/2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3115685 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id: NW42A Matrix:

Soil

Date Received:02.04.20 11.45

Lab Sample Id: 651246-001

Date Collected: 02.03.20 12.55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

Date Prep:

02.04.20 13.10

Basis:

Wet Weight

Seq Number: 3115594

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.15	5.01	mg/kg	02.04.20 16.21		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

02.04.20 13.00 Date Prep:

Basis:

Wet Weight

Seq Number: 3115596

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	02.04.20 17.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	02.04.20 17.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	02.04.20 17.50	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	02.04.20 17.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	02.04.20 17.50		
o-Terphenyl		84-15-1	92	%	70-135	02.04.20 17.50		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id: NW42A Matrix:

Soil

Date Received:02.04.20 11.45

Lab Sample Id: 651246-001

Date Collected: 02.03.20 12.55

Prep Method: SW5030B

% Moisture:

Wet Weight

Analytical Method: BTEX by EPA 8021B

Tech:

Analyst:

KTL

KTL

Date Prep:

02.05.20 16.00

Basis:

Seq Number: 3115685

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	02.05.20 23.44	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	02.05.20 23.44	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	02.05.20 23.44	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	02.05.20 23.44	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	02.05.20 23.44	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	02.05.20 23.44	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	02.05.20 23.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	80	%	70-130	02.05.20 23.44		
1,4-Difluorobenzene		540-36-3	113	%	70-130	02.05.20 23.44		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id: NW43B Matrix:

Soil

Date Received:02.04.20 11.45

Lab Sample Id: 651246-002

Date Collected: 02.03.20 12.20

Prep Method: E300P

% Moisture:

Tech: Analyst: CHE

Analytical Method: Chloride by EPA 300

CHE

Date Prep:

02.04.20 13.10

Basis:

Wet Weight

Seq Number: 3115594

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.61	4.97	mg/kg	02.04.20 16.41		1

Analytical Method: TPH By SW8015 Mod

DVM

Tech: Analyst:

ARM

Seq Number: 3115596

o-Terphenyl

Date Prep:

02.04.20 13.00

Prep Method: SW8015P

02.04.20 18.09

% Moisture:

70-135

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	02.04.20 18.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	02.04.20 18.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	02.04.20 18.09	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	02.04.20 18.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	77	%	70-135	02.04.20 18.09		

84-15-1





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

NW43B

Analytical Method: BTEX by EPA 8021B

Matrix:

Soil

Date Received:02.04.20 11.45

Lab Sample Id: 651246-002

Date Collected: 02.03.20 12.20

% Moisture:

Prep Method: SW5030B

Tech: Analyst: KTL

KTL

Date Prep:

02.05.20 16.00

Basis:

Wet Weight

Seq Number: 3115685

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	02.06.20 00.04	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	02.06.20 00.04	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	02.06.20 00.04	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	02.06.20 00.04	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	02.06.20 00.04	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	02.06.20 00.04	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	02.06.20 00.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	114	%	70-130	02.06.20 00.04		
4-Bromofluorobenzene		460-00-4	73	%	70-130	02.06.20 00.04		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

NW44B

Analytical Method: Chloride by EPA 300

Matrix:

Soil

Date Received:02.04.20 11.45

Lab Sample Id: 651246-003

Date Collected: 02.03.20 11.12

Prep Method: E300P

CHE

Tech:

Tech:

Analyst:

% Moisture:

Wet Weight

Analyst: Seq Number: 3115594

CHE

Date Prep:

02.04.20 13.10

Basis:

Dil

1

Flag

Parameter Chloride

Cas Number

16887-00-6

Result RL631 5.00

Analysis Date 02.04.20 16.48 mg/kg

Units

Analytical Method: TPH By SW8015 Mod

DVM

ARM

Date Prep:

02.04.20 13.00

% Moisture:

Basis:

Prep Method: SW8015P

Wet Weight

Seq Number: 3115596

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	02.04.20 18.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	02.04.20 18.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	02.04.20 18.29	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	02.04.20 18.29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	74	%	70-135	02.04.20 18.29		
o-Terphenyl		84-15-1	74	%	70-135	02.04.20 18.29		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

NW44B

Matrix:

Soil

Date Received:02.04.20 11.45

Lab Sample Id: 651246-003

Seq Number: 3115685

Date Collected: 02.03.20 11.12

Analytical Method: BTEX by EPA 8021B

1330-20-7

Prep Method: SW5030B

 $02.06.20\ 00.24$

02.06.20 00.24

% Moisture:

Tech: Analyst:

Total Xylenes

Total BTEX

KTL

KTL

Date Prep:

02.05.20 16.00

Basis:

mg/kg

mg/kg

Wet Weight

U

U

1

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201	mg/kg	02.06.20 00.24	U	1
Toluene	108-88-3	< 0.00201	0.00201	mg/kg	02.06.20 00.24	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	mg/kg	02.06.20 00.24	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	mg/kg	02.06.20 00.24	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	mg/kg	02.06.20 00.24	U	1

0.00201

0.00201

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	81	%	70-130	02.06.20 00.24	
1,4-Difluorobenzene	540-36-3	121	%	70-130	02.06.20 00.24	

< 0.00201

< 0.00201





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id: NW45A Matrix:

Soil

Date Received:02.04.20 11.45

Lab Sample Id: 651246-004

Date Collected: 02.03.20 10.20

RL

4.96

Prep Method: E300P

Tech:

Analytical Method: Chloride by EPA 300

Units

mg/kg

% Moisture:

CHE

Wet Weight

Analyst: Seq Number: 3115594

Parameter

Chloride

CHE

Date Prep:

50.6

Result

Cas Number

16887-00-6

02.04.20 13.10

Basis:

Dil

1

Flag

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Analysis Date

02.04.20 16.55

Tech:

DVM

% Moisture:

ARM Analyst:

02.04.20 13.00 Date Prep:

Basis:

Wet Weight

Seq Number: 3115596

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	02.04.20 18.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	02.04.20 18.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	02.04.20 18.48	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	02.04.20 18.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	75	%	70-135	02.04.20 18.48		
o-Terphenyl		84-15-1	75	%	70-135	02.04.20 18.48		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

NW45A

Matrix:

Soil

Date Received:02.04.20 11.45

Prep Method: SW5030B

Lab Sample Id: 651246-004

Date Collected: 02.03.20 10.20

Analytical Method: BTEX by EPA 8021B Tech:

Analyst:

KTL

KTL

Date Prep:

02.05.20 16.00

% Moisture: Basis:

Wet Weight

Seq Number: 3115685

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.06.20 00.44	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.06.20 00.44	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.06.20 00.44	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	02.06.20 00.44	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.06.20 00.44	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	02.06.20 00.44	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	02.06.20 00.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	85	%	70-130	02.06.20 00.44		
1,4-Difluorobenzene		540-36-3	105	%	70-130	02.06.20 00.44		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id: EWN2

Matrix:

Soil

Date Received:02.04.20 11.45

Lab Sample Id: 651246-005

Date Collected: 02.03.20 09.45

Prep Method: E300P

Tech: Analyst: CHE

Analytical Method: Chloride by EPA 300

CHE

Date Prep:

02.04.20 13.10

Basis:

% Moisture:

Wet Weight

Seq Number: 3115594

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.4	4.99	mg/kg	02.04.20 17.01		1

Analytical Method: TPH By SW8015 Mod

DVM

Tech:

ARM Analyst:

Seq Number: 3115596

Date Prep:

02.04.20 13.00

Prep Method: SW8015P % Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	02.04.20 19.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	02.04.20 19.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	02.04.20 19.07	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	02.04.20 19.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	73	%	70-135	02.04.20 19.07		
o-Terphenyl		84-15-1	74	%	70-135	02.04.20 19.07		





Etech Environmental & Safety Solution, Inc, Midland, TX

Wrigley to Piper Pipeline

Sample Id:

EWN2

Matrix:

Date Prep:

Soil

Date Received:02.04.20 11.45

Lab Sample Id: 651246-005

Date Collected: 02.03.20 09.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

02.05.20 16.00

Basis:

Wet Weight

KTL Analyst: Seq Number: 3115685

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.06.20 01.04	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.06.20 01.04	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.06.20 01.04	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	02.06.20 01.04	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.06.20 01.04	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	02.06.20 01.04	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	02.06.20 01.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	02.06.20 01.04		
4-Bromofluorobenzene		460-00-4	86	%	70-130	02.06.20 01.04		



Flagging Criteria



- Page 724 of 744
- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 651246

Etech Environmental & Safety Solution, Inc

Wrigley to Piper Pipeline

Analytical Method: Chloride by EPA 300

Seq Number: 3115594

7695923-1-BLK

Matrix: Solid

LCS Sample Id: 7695923-1-BKS

E300P Prep Method:

Date Prep: 02.04.20 LCSD Sample Id: 7695923-1-BSD

MR Spike **Parameter**

LCS LCS LCSD

%RPD RPD Limit Units Analysis

Result Amount Result %Rec Date %Rec Result 02.04.20 14:09 Chloride < 0.858 250 261 104 261 104 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300

3115594

Matrix: Soil

Spike

282

293

Amount

E300P Prep Method:

02.04.20

Parent Sample Id:

651214-004

Date Prep:

20

Parameter

MB Sample Id:

MS Sample Id: 651214-004 S

0

MSD Sample Id: 651214-004 SD

Analysis Date 02.04.20 14:29

Chloride

Seq Number:

Parent Result

369

Result

344

MS MS Result %Rec 654

Result 101

MSD

654

MSD %Rec 101

LCSD

90-110

Limits

Limits

%RPD RPD Limit Units

mg/kg

mg/kg

Flag

Flag

Analytical Method: Chloride by EPA 300

Seq Number:

3115594

Prep Method: Date Prep:

0

E300P

02.04.20

Parent Sample Id:

651214-005

Matrix: Soil MS Sample Id:

103

651214-005 S

MSD Sample Id: 651214-005 SD

Parameter

Chloride

Parent

MS Spike Result Amount

645

MS %Rec

MSD MSD Result %Rec

645

Limits 103 90-110 %RPD RPD Limit Units 20

Analysis

02.04.20 16:02

Flag Date

Flag

Flag

Analytical Method: TPH By SW8015 Mod

Seq Number: 3115596

Matrix: Solid

SW8015P

MB Sample Id:

7695964-1-BLK

LCS Sample Id:

Prep Method: Date Prep:

02.04.20

7695964-1-BKS LCSD Sample Id:

MB Spike LCS LCS LCSD **Parameter** Result %Rec Result Amount Gasoline Range Hydrocarbons (GRO) 873 87 <15.0 1000

Limits

%RPD RPD Limit Units

7695964-1-BSD

Analysis LCSD Date %Rec Result 70-135 20 02.04.20 11:28 862 86 1 mg/kg 02.04.20 11:28 952 95 70-135 2 20 Diesel Range Organics (DRO) 1000 967 97 <15.0 mg/kg

LCS MB MB LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 1-Chlorooctane 78 101 103 70-135 % 02.04.20 11:28 02.04.20 11:28 o-Terphenyl 79 96 88 70-135 %

Analytical Method: TPH By SW8015 Mod

3115596

Prep Method:

SW8015P

Seq Number:

Matrix: Solid

Date Prep:

02.04.20

Parameter

MB Result

MB Sample Id: 7695964-1-BLK

Units

Analysis Date

< 50.0

mg/kg

02.04.20 10:51

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

Motor Oil Range Hydrocarbons (MRO)

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result = MS/LCS Result

= MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Flag

Flag



QC Summary 651246

Etech Environmental & Safety Solution, Inc

Wrigley to Piper Pipeline

Analytical Method: TPH By SW8015 Mod

Seq Number: 3115596

Parent Sample Id: 651190-002

Matrix: Soil

Prep Method: SW8015P

Date Prep: 02.04.20

MSD Sample Id: 651190-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	884	89	999	100	70-135	12	20	mg/kg	02.04.20 12:26	
Diesel Range Organics (DRO)	273	997	1070	80	1120	85	70-135	5	20	mg/kg	02.04.20 12:26	

MS Sample Id: 651190-002 S

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		113		70-135	%	02.04.20 12:26
o-Terphenyl	91		97		70-135	%	02.04.20 12:26

Analytical Method: BTEX by EPA 8021B

Seq Number: 3115685

Matrix: Solid

Prep Method: SW5030B

Date Prep: 02.05.20

LCS Sample Id: 7696077-1-BKS LCSD Sample Id: 7696077-1-BSD MB Sample Id: 7696077-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	
Benzene	< 0.000385	0.100	0.123	123	0.107	107	70-130	14	35	mg/kg	02.05.20 21:04	
Toluene	< 0.000456	0.100	0.118	118	0.103	103	70-130	14	35	mg/kg	02.05.20 21:04	
Ethylbenzene	< 0.000565	0.100	0.112	112	0.0968	97	70-130	15	35	mg/kg	02.05.20 21:04	
m,p-Xylenes	< 0.00101	0.200	0.223	112	0.192	96	70-130	15	35	mg/kg	02.05.20 21:04	
o-Xylene	< 0.000344	0.100	0.112	112	0.0958	96	70-130	16	35	mg/kg	02.05.20 21:04	

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag	Limits	Cints	Date
1,4-Difluorobenzene	108		112		107		70-130	%	02.05.20 21:04
4-Bromofluorobenzene	70		89		85		70-130	%	02.05.20 21:04

Analytical Method: BTEX by EPA 8021B

Seq Number: 3115685

Matrix: Soil

Prep Method: SW5030B Date Prep:

02.05.20

MS Sample Id: 650969-021 S MSD Sample Id: 650969-021 SD Parent Sample Id: 650969-021

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	KPD Limi	it Units	Analysis Date
Benzene	< 0.000384	0.0998	0.109	109	0.118	118	70-130	8	35	mg/kg	02.05.20 21:45
Toluene	< 0.000455	0.0998	0.0975	98	0.100	100	70-130	3	35	mg/kg	02.05.20 21:45
Ethylbenzene	< 0.000564	0.0998	0.0855	86	0.0871	87	70-130	2	35	mg/kg	02.05.20 21:45
m,p-Xylenes	< 0.00101	0.200	0.168	84	0.171	86	70-130	2	35	mg/kg	02.05.20 21:45
o-Xylene	< 0.000344	0.0998	0.0872	87	0.0886	89	70-130	2	35	mg/kg	02.05.20 21:45

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		105		70-130	%	02.05.20 21:45
4-Bromofluorobenzene	90		92		70-130	%	02.05.20 21:45

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result

C = MS/LCS Result E = MSD/LCSD Result MS = Matrix SpikeB = Spike Added D = MSD/LCSD % Rec

ES NO NA

Ö



Certificate of Analysis Summary 651688

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wringley to Piper Pipeline



Project Id: Contact:

Project Location:

Joel Lowry

Date Received in Lab: Fri Feb-07-20 11:44 am

Report Date: 10-FEB-20

Project Manager: Jessica Kramer

	Lab Id:	651688-001			
Analysis Requested	Field Id:	NW44C			
Anaiysis Requesieu	Depth:				
	Matrix:	SOIL			
	Sampled:	Feb-06-20 00:00			
Chloride by EPA 300	Extracted:	Feb-07-20 12:30			
	Analyzed:	Feb-07-20 13:15			
	Units/RL:	mg/kg RL			
Chloride		<5.01 5.01			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Jessica Vramer

Jessica Kramer Project Assistant

Analytical Report 651688

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry
Wringley to Piper Pipeline

10-FEB-20

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)

Actico-Tampa. Fiorida (E67429), Nordi Caronna (465)





10-FEB-20

Project Manager: Joel Lowry

Etech Environmental & Safety Solution, Inc P.O. Box 8469 Midland, TX 79708

Reference: XENCO Report No(s): 651688

Wringley to Piper Pipeline

Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 651688. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 651688 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 651688



Etech Environmental & Safety Solution, Inc, Midland, TX

Wringley to Piper Pipeline

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NW44C	S	02-06-20 00:00		651688-001

Version: 1.%

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wringley to Piper Pipeline

Project ID: Report Date: 10-FEB-20 Work Order Number(s): 651688 Date Received: 02/07/2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None





Etech Environmental & Safety Solution, Inc, Midland, TX

Wringley to Piper Pipeline

Sample Id: NW44C

Matrix:

Soil

Date Received:02.07.20 11.44

Lab Sample Id: 651688-001

Date Collected: 02.06.20 00.00

Prep Method: E300P

% Moisture:

Tech: S

Analyst:

SPC SPC

Analytical Method: Chloride by EPA 300

Date Prep:

02.07.20 12.30

Basis:

Wet Weight

Seq Number: 3115971

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 5.01	5.01	mg/kg	02.07.20 13.15	U	1



Flagging Criteria



Page 734 of 744

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

Reporting Limit RL

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

LOQ Limit of Quantitation **PQL** Practical Quantitation Limit MQL Method Quantitation Limit

Method Detection Limit DL

NC Non-Calculable

BLK Method Blank **SMP** Client Sample

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 651688

Etech Environmental & Safety Solution, Inc

Wringley to Piper Pipeline

Analytical Method: Chloride by EPA 300

Seq Number: 3115971

7696233-1-BLK

Matrix: Solid

102

Prep Method:

E300P

MB Sample Id:

LCS Sample Id: 7696233-1-BKS

Date Prep: 02.07.20 LCSD Sample Id: 7696233-1-BSD

MB Spike LCS LCS %RPD RPD Limit Units

Parameter

Result Amount 250

LCSD %Rec Result

Limits LCSD

Analysis Date

Chloride

< 0.858

Result

3.19

2.57

Result 254

%Rec 255 102

90-110

20

0

mg/kg

02.07.20 13:02

Flag

Analytical Method: Chloride by EPA 300

Matrix: Soil

Prep Method:

E300P

Seq Number: Parent Sample Id: 3115971 651582-020

Date Prep: 02.07.20

MS Sample Id: 651582-020 S MSD Sample Id: 651582-020 SD

02.07.20 14:55

Parameter

Parent

MS MS

MSD MSD

Limits

%RPD RPD Limit Units

Analysis

Chloride

Amount 249

Spike

Result %Rec 260 103

Result 260 %Rec 103 90-110 20 mg/kg

Flag Date

Seq Number:

3115971

Analytical Method: Chloride by EPA 300 Matrix: Soil Prep Method:

0

0

E300P

Date Prep: 02.07.20

Parent Sample Id:

651688-001

MS Sample Id:

651688-001 S

MSD Limits MSD Sample Id: 651688-001 SD

Parameter

Parent Spike Result

MS MS Result %Rec

MSD Result

%Rec

90-110

%RPD RPD Limit Units

Analysis Flag Date

Chloride

Amount 251

259 102

259

102

20

mg/kg

02.07.20 13:22

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec Project ID: CTLs Sampler Name: Invoice To: PM/Attn: Address: Company: Sample # Catalina Villa N ဖ ထ တ ່ ບາ 4 ယ ึง TRPP Reg. Program / Clean-up Std Etech Environmental Wrigley to Piper Pipeline 3100 Plains Hwy. Ralph Tijerina, Goodnight Midstream Lance Crenshaw Lovington DW NPDES LPST Sample ID NW44C Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800 DryCin Semi-Annual Annual Circle One Event: Daily 2/6/2020 Collect STATE for Certs & Regs ₹ ≯ GA NC Email: State: NM CHAIN OF CUSTODY RECORD Collect SC NJ PA OK LA × Weekly Zip: PO#: Phone: Quote #: pm@etechenv.com Fax: SOIL Matrix Monthly 88260 Field PAA-C. Bryant (575)396-1429 (575)396-2378 2-6 1 2 3 4 CLP AFCE NELAC DoD-ELAP Other 2.6-QA/QC Level & Certification Integrity OK (Y/N Quartely Total # of AFCEE QAPP res Type** TAT Work Days = D Example Volatiles by 8260 Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D Lab Only GC **TPH 8015M** ADaPT SEDD XLS Other: GC BTEX Need results by: 1 **EDDs** GC CI ANALYSES REQUESTED **ERPIMS**

SFTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Sexecution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.

Revision Date: Nov 12, 2009

Match incomplete Absent Unclear COC & Labels

105 20

Samples intact upon arrival?

Coolers

Jemp 'C 3 28

Lab Use Only

ES NO NA

\ \\

VOCs rec'd w/o headspace? Received within holding time? Received on Wet Ice? Non-Conformances found?

Justody seals intact?

abeled with proper preservatives?

oH verified-acceptable, excl VOCs

C.O.C. Serial #

Page 9 of 10

Final 1.000

A. None E. HCL
B. HNO₃ F. MeOH
H₂SO₄ G. Na₂S₂O₃ K
D. NaOH H. NaHSO₄
O.

I. Ice
J. MCAA
S. K. ZnAc&NaOH
SO₄ L Asbc Acid&NaOH

GW Ground Water
WW Waste Water
DW Drinking Water
SW Surface Water
OW Ocean/Sea Water
PL Product-Liquid
PS Product-Solid
SL Sludge

S V. State Water Water A Ai.

"W Surface Water O Oil

"V Ocean/Sea Water T Tiss.

Product-Liquid

Product-Sour-4

Product-Sour

Soil/Sediment/Solid
Wipe
A Air
O Oi
Tissue
Unine
Blood

REMARKS

^ Matrix Type Codes

Field billable Hrs LAB W.O#:

VA Vial Amber
VC Vial Clear
VVI Vial Pre-preserved
GA Glass Amber
GC Glass Clear
PA Plastic Amber
PC Plastic Clear
Other

Sarve

Encore Sampler TerraCore Sampler Air Canister Tedlar Bag Zip Lock Bag Plastic Clear

* Container Type Codes

14D

Other Time:

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz , 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other

** Preservative Type Codes

Page__1

Work Order #: 651688

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Date/ Time Received: 02.07.2020 11.44.00 AM

Temperature Measuring device used: R8

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		.5	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	iner/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?		N/A	
#6*Custody Seals Signed and dated?		N/A	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquisl	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		N/A	
#18 Water VOC samples have zero headsp	pace?	N/A	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator							
Analyst:		PH Device/Lot#:					
	Checklist completed by:	Brianna Teel	Date: 02.07.2020				
	Checklist reviewed by:	Jessica Vramer	Date: 02.10.2020				

Jessica Kramer

Appendix D Photographic Log

Photo Number:

1
Photo Direction:
West
Photo Description:
View of the Initial

Release.



Photo Number:

2
Photo Direction:
East
Photo Description:
View of the Initial

Release.



Photo Number:

Photo Direction: West

Photo Description:

View of the Initial Release.



Photo Number:

4

Photo Direction:

South

Photo Description:

View of Surface Staining from the Initial Release.



Photo Number:

5

Photo Direction:

South

Photo Description:

View of Excavation Activities and Sample Collection.



Photo Number:

6

Photo Direction:

South

Photo Description:

View of Excavation Activities and Sample Collection.



Photo Number:

7

Photo Direction:

East

Photo Description:

View of Excavation before backfill.



Photo Number:

8

Photo Direction:

South

Photo Description:

View of Excavation before backfill.



Photo Number:

9

Photo Direction:

West

Photo Description:

View of excavated area being backfilled.



Photo Number:

10

Photo Direction:

West

Photo Description:

View of completed, remediated area after backfill.



Photo Number:

11

Photo Direction: Northeast

Photo Description: View of completed, remediated area after backfill.



Photo Number:

12

Photo Direction: North

Photo Description:

View of completed, remediated area after backfill.

